ORDER NO. MD0507278C3

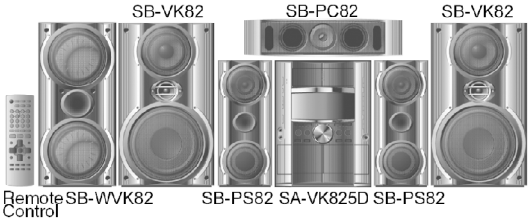
Service Manual

DVD Stereo System

SA-VK825DEE

Colour

(S)... Silver Type


SB-VK82
SB-PC82
SB-VK82
Remote Control
SB-WVK82
SB-PS82
SA-VK825D
SB-PS82

SPECIFICATIONS

Specifications

■ AMPLIFIER SECTION

RMS Output Power: Dolby Digital Mode

Main	85 W per channel (4 Ω), 1 kHz, 10% THD
Surround Ch	60 W per channel (4 Ω), 1 kHz, 10% THD
Center Ch	80 W per channel (4 Ω), 1 kHz, 10% THD
Subwoofer Ch	90 W per channel (4 Ω), 100 Hz, 10% THD
Total RMS Dolby Digital mode power	460 W

■ FM/AM TUNER, TERMINALS SECTION

Preset station	FM 15 stations AM 15 stations
Frequency Modulation (FM)	
Frequency range	87.50 - 108.00 MHz (50 kHz step)
Sensitivity	2.5 µV (IHF)
S/N 26dB	2.2 µV
Antenna terminals	75 Ω (unbalanced)

Amplitude Modulation (AM)	
Frequency range	522 - 1629 kHz (9 kHz step)
AM Sensitivity S/N 20dB at 999 kHz	560 μ V/m
Audio performance (Amplifier)	
Input sensitivity/Input impedance	
Aux	250 mV, 20 k Ω
Phone jack	
Terminal	Stereo, 3.5 mm jack
Mic jack	
Sensitivity	0.7 mV, 600 Ω
Terminal	Mono, 6.3 mm jack (2 system)

■ CASSETTE DECK SECTION

Type	Auto-Reverse
Track system	4-Track, 2 Channel
Head Record/Playback	Solid permalloy head
Erasure	Double gap ferrite head
Motor	DC servo motor
Recording System	AC Bias 100 kHz
Erasing System	AC Erase 100 kHz
Tape Speed	4.8 cm/s
Overall frequency response (+3, -6 dB) at DECK OUT	
Normal	35 Hz - 14 kHz
S/N Ratio	50 dB (A weighted)
Wow and Flutter	0.18 % (WRMS)
Fast Forward and Rewind Time	Approx. 120 seconds with C-60 cassette tape

■ DISC SECTION

Disc played [8 cm or 12 cm]

(1) DVD (DVD-Video, DVD-Audio, DivX* 6,*7)

(2) DVD-RAM (DVD-VR, JPEG * 4, * 7, MPEG4 * 5,*7,DivX * 6,*7)

(3) DVD-R (DVD-Video, DivX * 6,*7)

(4) DVD-RW (DVD-Video, DVD-VR, DivX * 6,*7)

+ R/RW (Video)

(5) CD,CD-R/RW [CD-DA, Video CD, SVCD * 1, MP3 * 2, * 7, WMA * 3, * 7, JPEG * 4, * 7, MPEG4 * 5,*7,DivX * 6,*7, HighMAT Level 2 (Audio and Image)]

* 1 Conforming to IEC62107

* 2 MPEG-1 Layer 3, MPEG-2 Layer 3

* 3 Windows Media Audio Ver.9.0. L3
Not compatible with Multiple Bit Rate (MBR)

* 4 Exif Ver 2.1 JPEG Baseline files
Picture resolution: between 160 x 120 and 6144 x 4096 pixels (Sub sampling is 4:2:2 or 4:2:0)

* 5 MPEG4 data recorded with Panasonic SD multi cameras or DVD video recorders.
Conforming to SD VIDEO specifications (ASF standard)/ MPEG4 (Simple Profile) video system/G.726 audio system

* 6 DivX 3.11, 4.x, 5.x

GMC (Global Motion Compesation) not supported

*** 7The total combined maximum number of recognizable audio, picture and video contents and groups: 4000 audio ,picture and video contents and 400 groups.**

Pick up	
Wavelength	
CD	**785 nm**
DVD	**662 nm**
Audio output (Disc)	
Number of channels	**5.1 ch (FL,FR,C,SL,SR,SW)**
Audio performance (measurement at: Line out terminal)	
Frequency response	
CD-Audio	**4 Hz to 20 kHz (+1 dB,-2 dB)**

■ VIDEO SECTION

Video system	
Signal system	**PAL625/50, PAL525/60, NTSC**
Composite video output	
Output level	**1 Vp-p (75 Ω)**
Terminal	**Pin jack (1 system)**
S-video output	
Y output level	**1 Vp-p (75 Ω)**
C output level	**0.3 Vp-p (75 Ω) (PAL)** **0.286 Vp-p (75 Ω) (NTSC)**
Terminal	**S terminal (1 system)**
Component video output	
[NTSC: 525 (480)p/525 (480)i, PAL: 625 (576)p/625 (576)i]	
Y output level	**1 Vp-p (75 Ω)**
PB output level	**0.7 Vp-p (75 Ω)**
PR output level	**0.7 Vp-p (75 Ω)**
Terminal	**Pin jack (Y: green, PB: blue, PR: red) (1 system)**

■ GENERAL

Power supply	**AC 230 V, 50Hz**
Power consumption	**365 W**
Power consumption in standby mode:	**0.9 W (approximate)**
Dimensions (W x H x D)	**250 x 330 x 348 mm**
Mass	**9.4 kg**
Operating temperature range	**+5°C to +35°C**
Operating humidity range	**5% to 90% RH (no condensation)**

■ SYSTEM

SC-VK825D (EE-S)	**Music System: SF-VK825D (EE-S)** **Speakers: SB-VK82D (GC-S)**

Music System	**SF-VK825D EE**
Music Center	SA-VK825D EE-S
Satellite Speakers	SB-PT82 EE-S

Speaker System	**SB-PT82 EE-S**
Surround Speakers	SB-PS82 GC-S
Center Speaker	SB-PC82 GC-S

Speaker System	**SB-VK82D GC-S**
Front Speakers	SB-VK82 GC-S
Subwoofer	SB-WVK82 GC-S

Notes:

1. Specifications are subject to change without notice. Mass and dimensions are approximate.

2. Total harmonic distortion is measured by the digital spectrum analyzer.

MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.

Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

WMA is a compression format developed by Microsoft Corporation. It achieves the same sound quality as MP3 with a file size that is smaller than that of MP3.

Designed for Windows Media™

HIGH MAT AUDIO•IMAGE

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HDCD system manufactured under license from Pacific Microsonics, Inc. This product is covered by one or more of the following: In the USA: 5,479,168, 5,638,074, 5,640,161, 5,808,574, 5,838,274, 5,854,600, 5,864,311, 5,872,531, and in Australia: 669114, with other patents pending.

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⚠ **WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C5815, C5818, C9513, C9533, C9534, C9816 and C9817 through a 10 Ω , 5W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.
Current consumption at AC 230V at 50Hz in NO SIGNAL (vol. min, at CD mode) should be ~500mA .

2. Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.

- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are
"shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.
If this occurs, follow the procedure outlines below:

1. Turn off the power.

2. Determine the cause of the problem and correct it.

3. Turn on the power once again after one minute.

Note :
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

3. Safety Precautions

3.1. General Guidelines

1. **When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.**
2. **After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.**

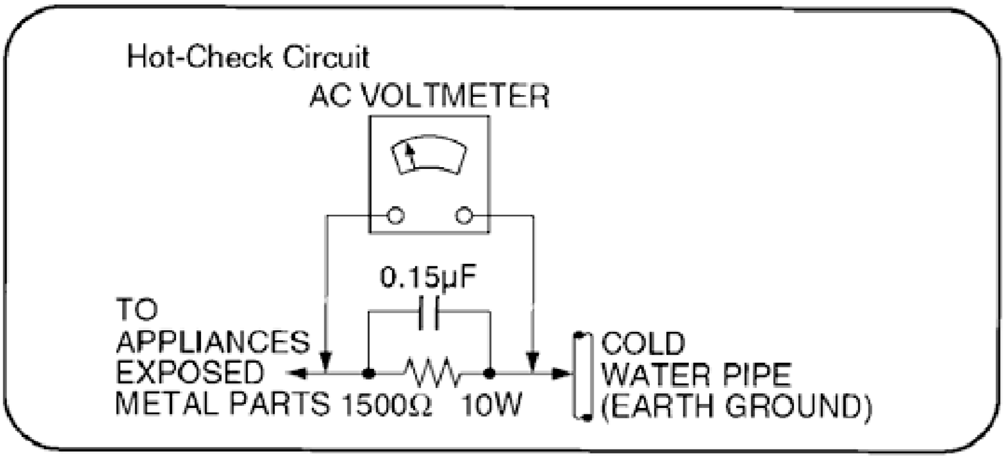
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

3.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.

2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M Ω and 5.2M Ω .
When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

Figure 1



3.1.2. Leakage Current Hot Check / (See Figure 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.

2. Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 μ F capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.

3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.

4. Check each exposed metallic part, and measure the voltage at each point.

5. **Reverse the AC plug in the AC outlet and repeat each of the above measurements.**
6. **The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is out of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.**

4. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor “chip” components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminium foil, to prevent electrostatic charge build up or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder remover device. Some solder removal devices not classified as “anti-static (ESD protected)” can generate electrical charge to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically**

shorted together by conductive foam, aluminium foil or comparable conductive material).

7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize body motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

5. Handling the Lead-free Solder

5.1. About lead free solder (PbF)

Distinction of PbF P.C.B.:

P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

Caution:

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of soldering iron with temperature control, please set it to 700 ± 20°F (370 ± 10°C).
- Pb free solder will tend to splash when heated too high (about 1100°F/600°C).
- When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

6. Precaution of Laser Diode

Caution :

This product utilizes a laser diode with the unit turned "ON", invisible laser radiation is emitted from the pick up lens. / Wavelength : 785 nm(CD)/662 nm(DVD) / Maximum output radiation power from pick up : 100 μ W/VDE

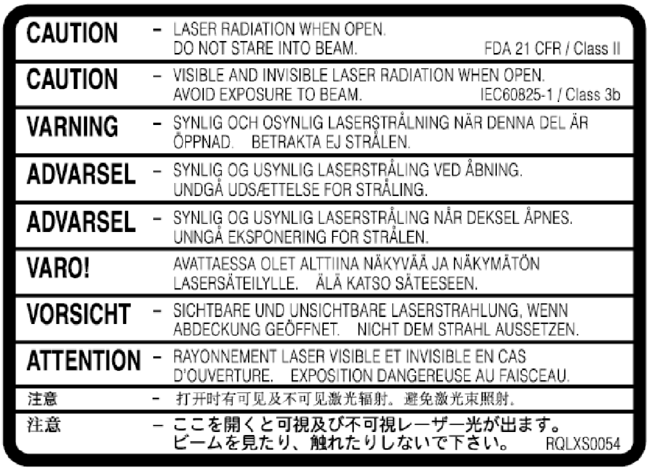
Laser radiation from pick up unit is safety level, but be sure the followings:

1. Do not disassemble the optical pick up unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pick up unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pick up lens for a long time.

CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN TH
SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

■ **Use of Caution Labels**



CAUTION – LASER RADIATION WHEN OPEN.
DO NOT STARE INTO BEAM. FDA 21 CFR / Class II

CAUTION – VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN.
AVOID EXPOSURE TO BEAM. IEC60825-1 / Class 3b

VARNING – SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.

ADVARSEL – SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING.
UNDGÅ UDSÆTTELSE FOR STRÅLING.

ADVARSEL – SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES.
UNNGÅ EKSPONERING FOR STRÅLEN.

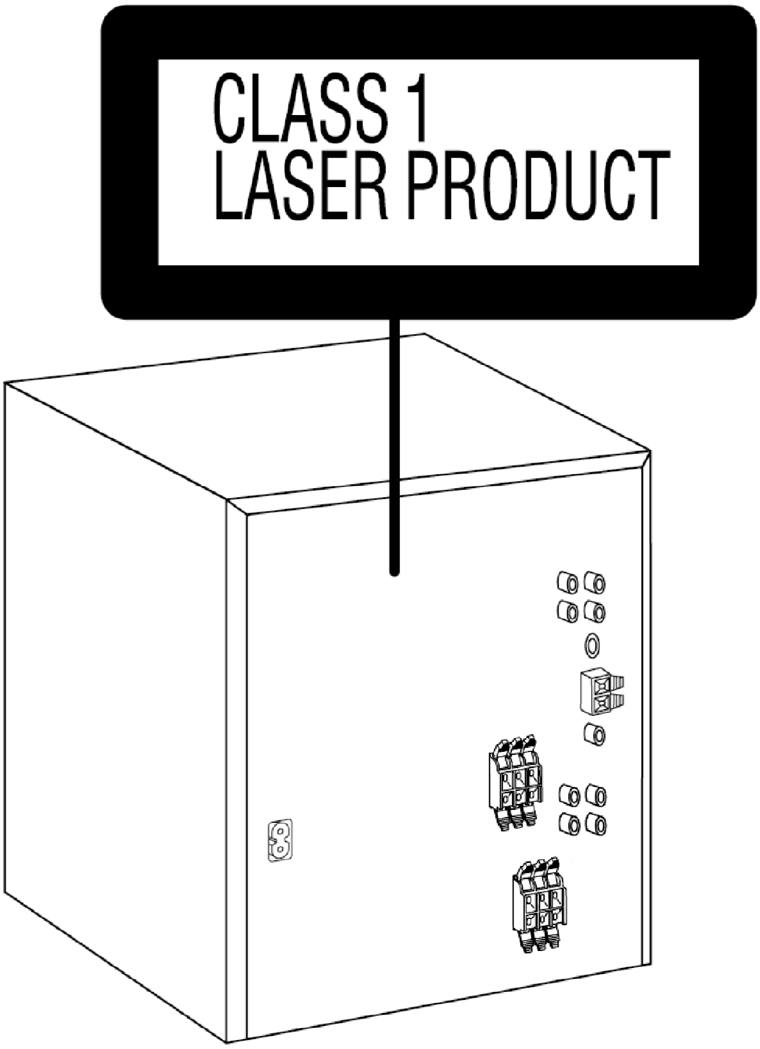
VARO! AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

VORSICHT – SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.

ATTENTION – RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.

注意 – 打开时有可见及不可见激光辐射。避免激光束照射。

注意 – ここを開くと可視及び不可視レーザー光が出ます。
ビームを見たり、触れたりしないで下さい。 RQLXS0054



7. Cautions to be taken when handling Optical Pickup

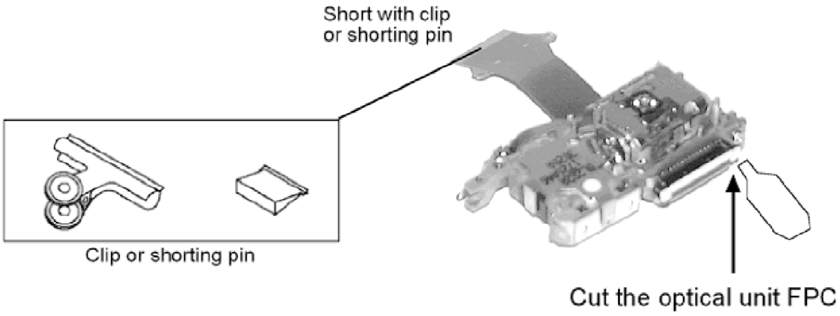
The laser diode used inside optical pickup could be destroyed due to static electricity as a

potential difference is caused by electrostatic load discharged from clothes or human body. Handling the parts carefully to avoid electrostatic destruction during repair.

7.1. Handling Optical Pickup

1. **Do not impact on optical pickup as the unit structurally uses an extremely precise technology.**
2. **Short-circuit the flexible cable of optical pickup remove from the circuit board using a short-circuit pin or clip in order to prevent laser diode from electrostatic destruction (Refer to Fig. 7.1 and Fig. 7.2)**
3. **Do not handle flexible cables forcibly as this may cause snapping. Handle the parts carefully (Refer to Fig. 7.1)**
4. **A new optical pickup is equipped with an anti-static flexible cable. After replacing and connecting to the flexible board, cut the anti-static flexible cable. (Refer to Fig. 7.1)**

Fig. 7.1



7.2. Replacing Precautions for Optical Pickup Unit

DVD/CD Optical Pickup

The optical pickup by which part supply was carried out attaches the short clip to the flexible board for laser diode electrostatic discharge damage prevention. Please remove the short clip and be sure to check that the short land is open, before connecting. (Please remove solder, when the short land short-circuits.)

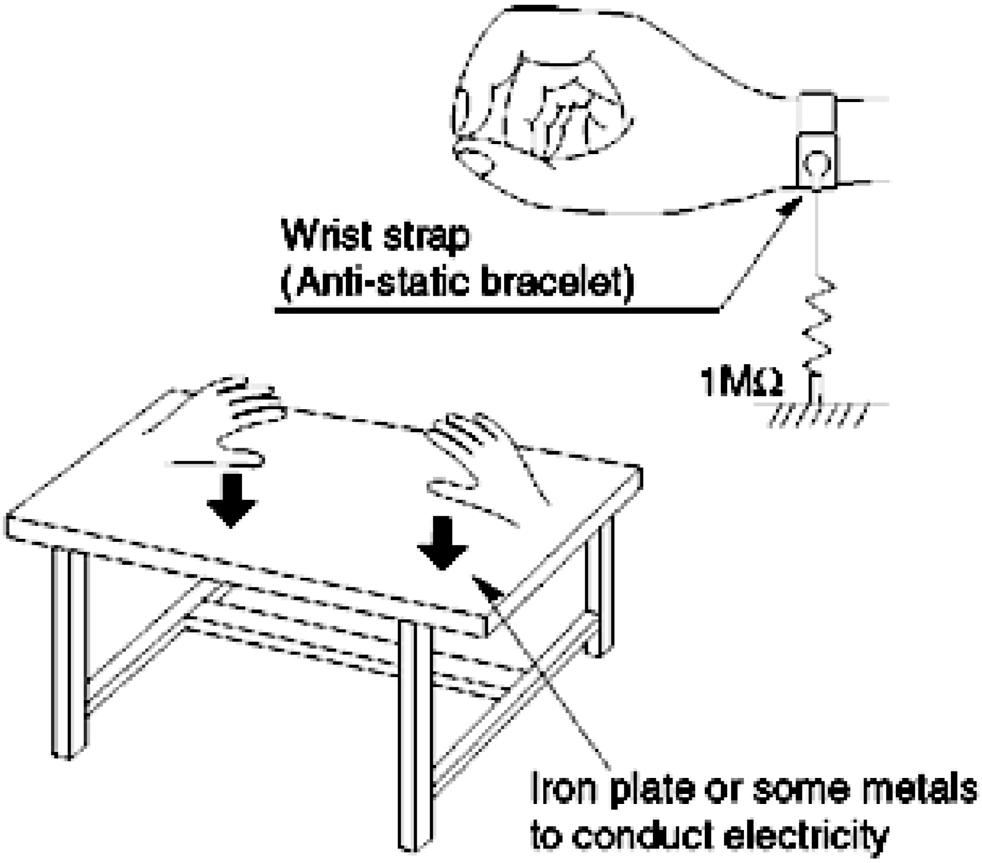
7.3. Grounding for Preventing Electrostatic Destruction

1. **Human body grounding**
   Use the anti-static wrist strap to discharge the static electricity accumulated in your body. (Refer to Fig. 7.2)
2. **Work place grounding**
   Place a conductive material (conductive sheet) or iron board where optical pickup is placed. (Refer to Fig. 7.2)

Note :

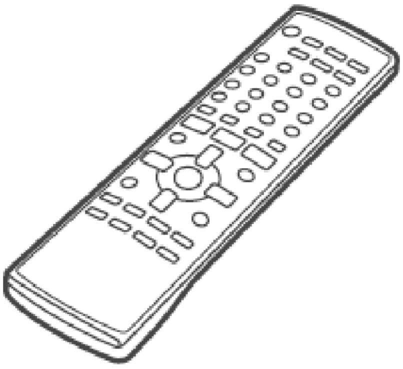
Keep your clothes away from optical pickup as wrist strap does not release the static electricity charged in clothes.

Fig. 7.2

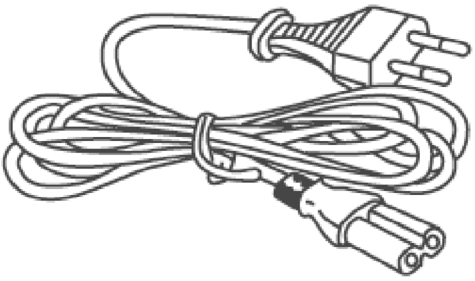

Wrist strap
(Anti-static bracelet)
1MΩ
Iron plate or some metals
to conduct electricity

8. Accessories

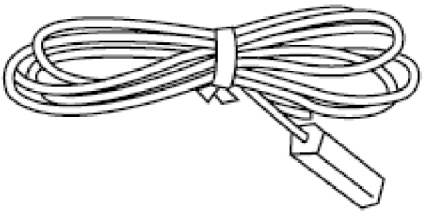
Remote control



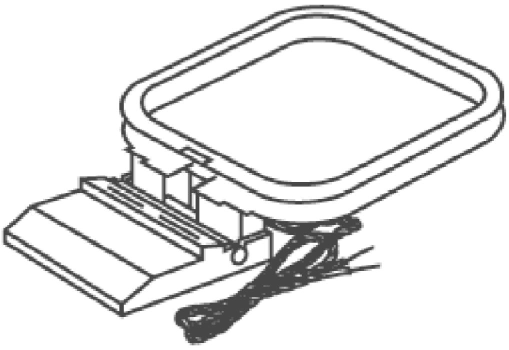
AC cord



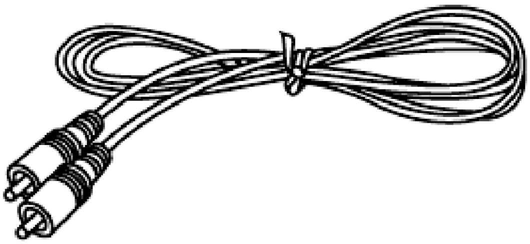
FM antenna



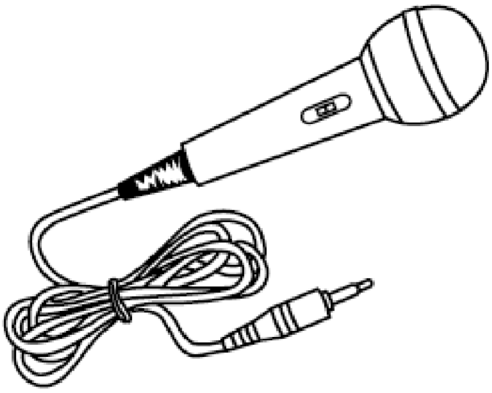
AM antenna



Video cable



Microphone



9. Operation Procedures

10. Disc information

11. About HighMAT

11.1. What's HighMAT?

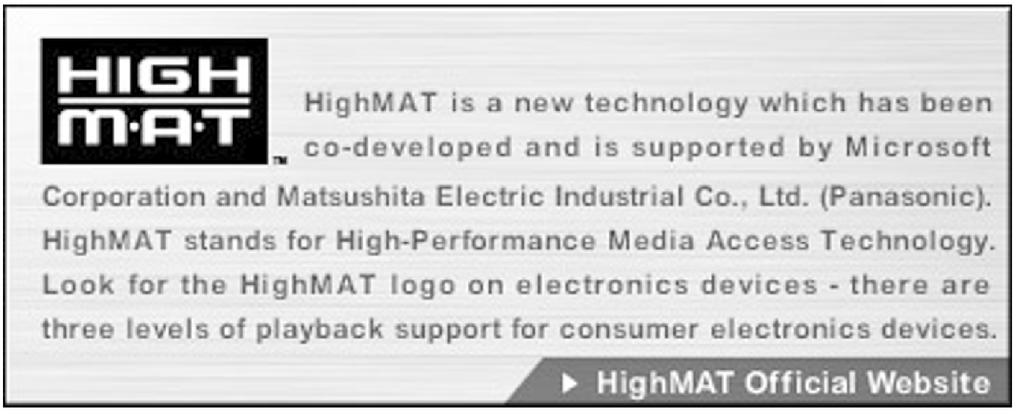
Consumers worldwide are using PCs to create their own collections of music, photos and even video by burning them onto CDs. But how these collections can be experienced across different devices can be confusing to navigate, time consuming to access for a DVD player, and be incomplete in terms of music information available to the customer.

HighMAT offers a solution to this growing consumer problem. HighMAT dramatically improves the digital media experience on consumer electronic devices by delivering a simple, standardized approach that allows consumers who have created personal collections of digital music, photography and video on their PC to:

>> Create a HighMAT CD or DVD which can be easily played back on consumer electronics devices such as CD and DVD players, and car stereos.

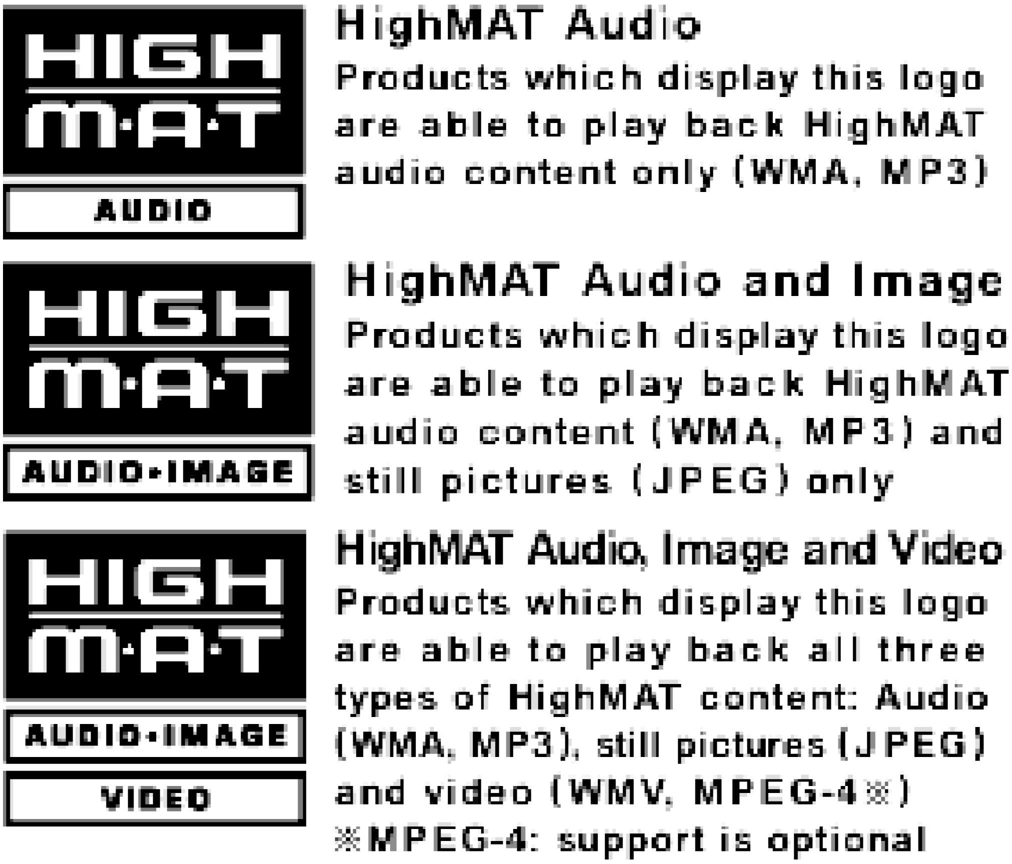
>> Move digital media files (using recordable media such as CD-R and CD-RW) between the PC and various playback devices such as CD and DVD players.

A new standard for creating personal media on consumer electronic devices, HighMAT enable easier and more seamless interoperability between Windows PCs and devices designed for your living room, or the car.



HighMAT is a new technology which has been co-developed and is supported by Microsoft Corporation and Matsushita Electric Industrial Co., Ltd. (Panasonic). HighMAT stands for High-Performance Media Access Technology. Look for the HighMAT logo on electronics devices - there are three levels of playback support for consumer electronics devices.

HIGH M·A·T ™
▸ HighMAT Official Website


HIGH
M·A·T
AUDIO
HIGH
M·A·T
AUDIO·IMAGE
HIGH
M·A·T
AUDIO·IMAGE
VIDEO

HighMAT Audio

Products which display this logo are able to play back HighMAT audio content only (WMA, MP3)

HighMAT Audio and Image

Products which display this logo are able to play back HighMAT audio content (WMA, MP3) and still pictures (JPEG) only

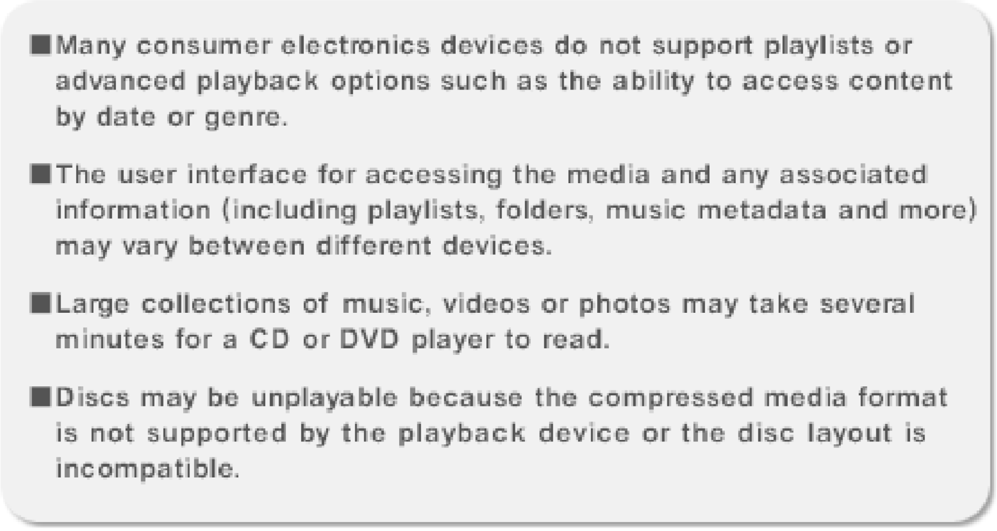
HighMAT Audio, Image and Video

Products which display this logo are able to play back all three types of HighMAT content: Audio (WMA, MP3), still pictures (JPEG) and video (WMV, MPEG-4※)

※MPEG-4: support is optional

11.2. Why take advantage of HighMAT?

A Problem Defined:Today, when consumers create their own digital audio, video or photo collections on CD-R or other physical formats, there are numerous, inconsistent ways that devices read the data. For the consumer, the playback experience can be confusing:

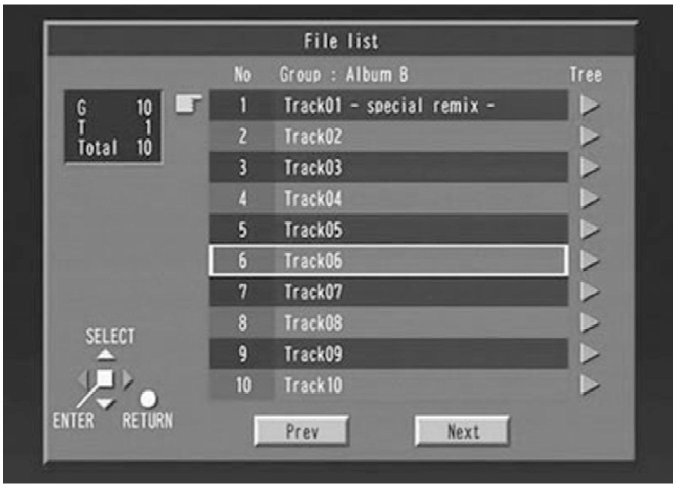
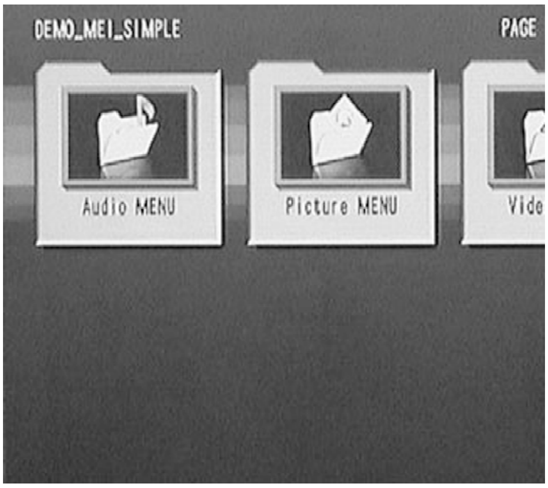


- ■Many consumer electronics devices do not support playlists or advanced playback options such as the ability to access content by date or genre.
- ■The user interface for accessing the media and any associated information (including playlists, folders, music metadata and more) may vary between different devices.
- ■Large collections of music, videos or photos may take several minutes for a CD or DVD player to read.
- ■Discs may be unplayable because the compressed media format is not supported by the playback device or the disc layout is incompatible.

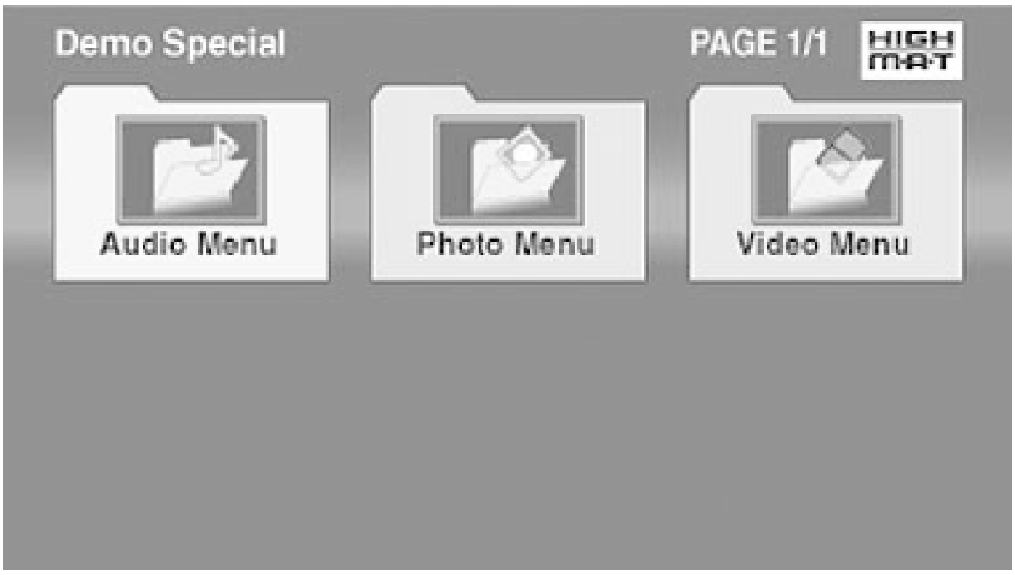
A Solution Created: HighMAT delivers a better digital media access experience by creating a standard approach for PCs to structure digital media on various physical formats and for playback devices to read the data.

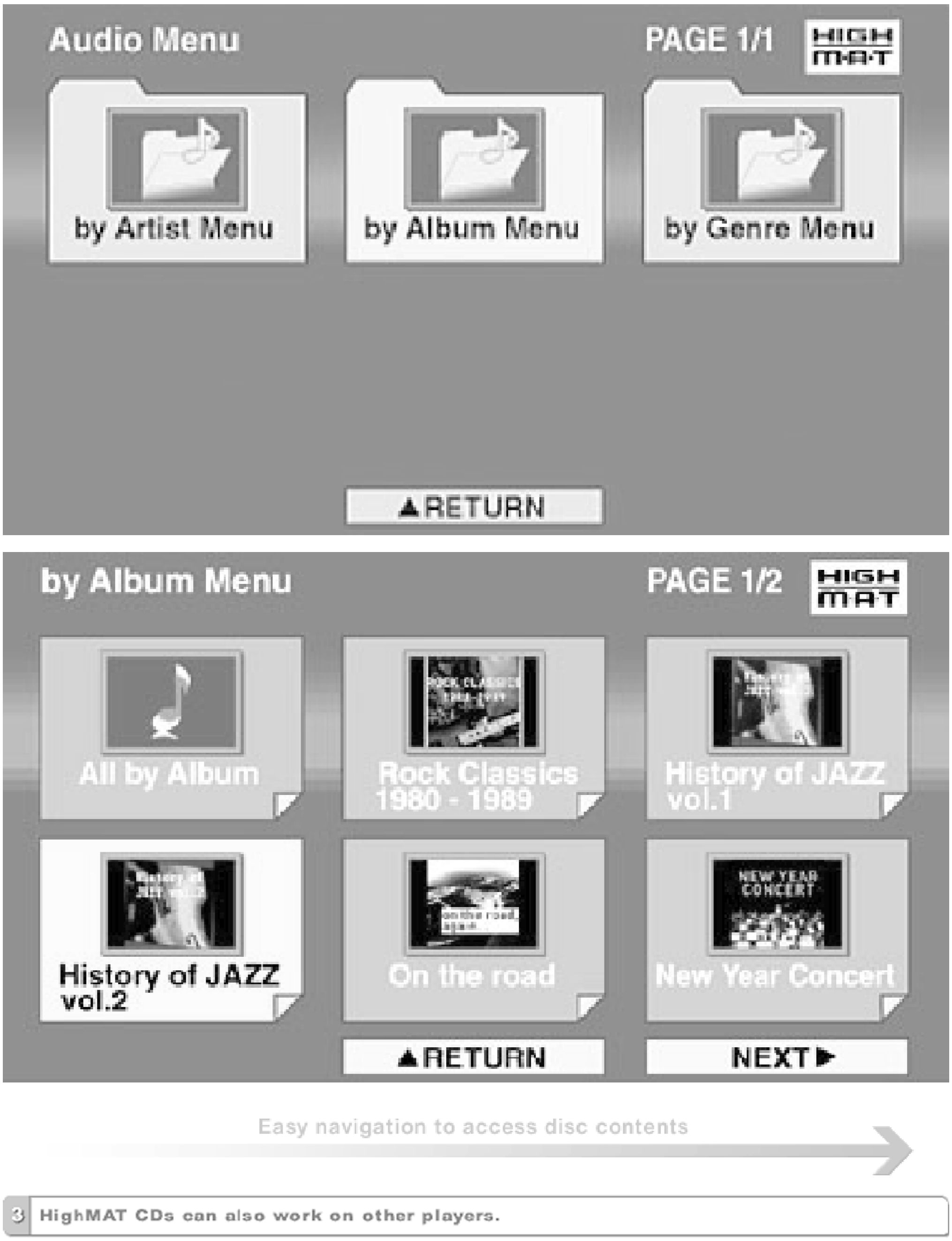
11.3. Benefits of HighMAT?

1 Creating a HighMAT CD makes it easier to navigate different types of media you want to burn onto a CD (Photos, Music).

Conventional	HighMAT
Even though DVD player is CD-R/RW compatible, the inconsistent ways that various DVD players can read the music or photos files often leads to a confusing and inconsistant playback experince.	**HighMAT compatible products play content with consistent interface. This includes pro which are JPEG compatible products witho HighMAT support.**
 File list No Group : Album B Tree G 10 T 1 Total 10 1 Track01 - special remix - 2 Track02 3 Track03 4 Track04 5 Track05 6 Track06 7 Track07 8 Track08 9 Track09 10 Track10 SELECT ENTER RETURN Prev Next	 DEMO_MEI_SIMPLE PAGE Audio MENU Picture MENU Vide

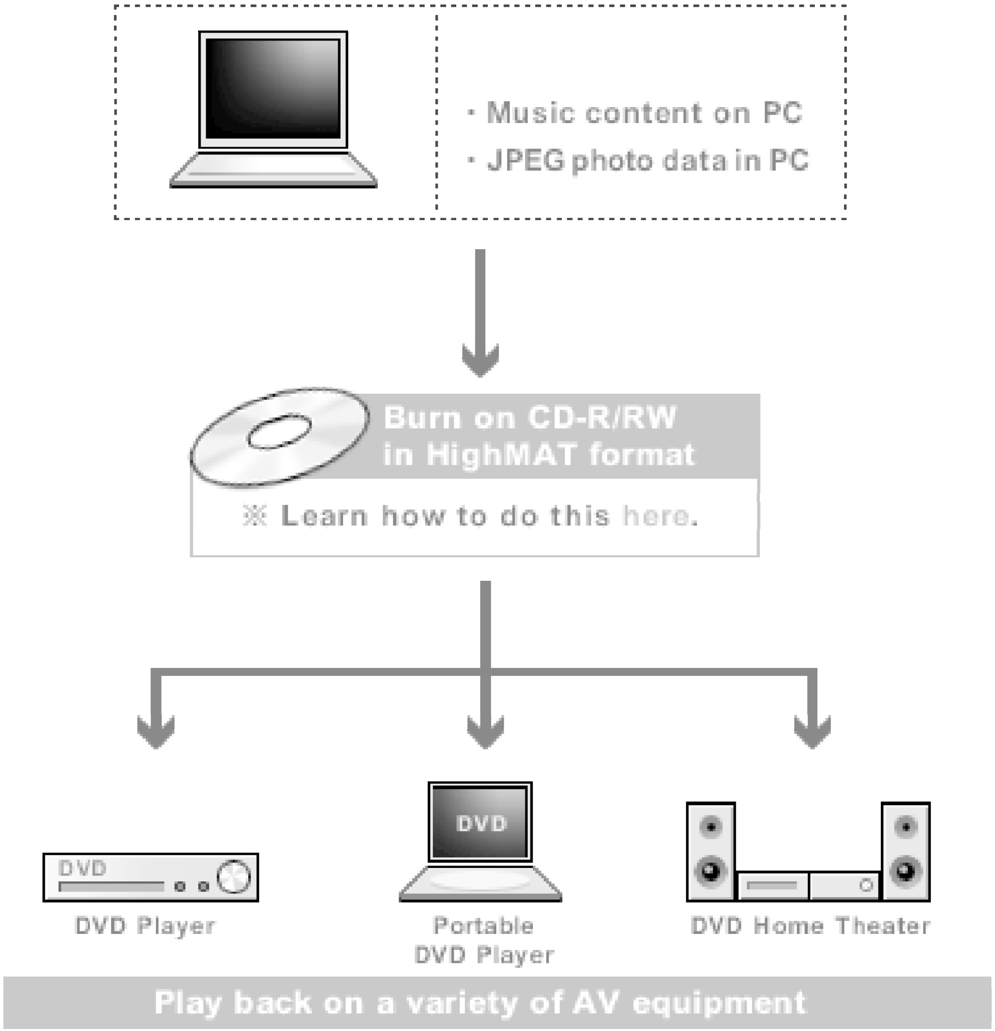
2 Eliminates compatibility issues and delivers better more consistent access to more music information like artist, song name, genre and photo information (metadata) as well as provide faster access to large amounts of music and photo files burned on CDs.


Demo Special
PAGE 1/1
HIGH MAT
Audio Menu
Photo Menu
Video Menu


Audio Menu
PAGE 1/1
HIGH MAT
by Artist Menu
by Album Menu
by Genre Menu
▲RETURN
by Album Menu
PAGE 1/2
HIGH MAT
All by Album
Rock Classics 1980 - 1989
History of JAZZ vol.1
History of JAZZ vol.2
On the road
New Year Concert
▲RETURN
NEXT ▶

Easy navigation to access disc contents

3 HighMAT CDs can also work on other players.


· Music content on PC
· JPEG photo data in PC
Burn on CD-R/RW
in HighMAT format
※ Learn how to do this here.
DVD
DVD Player
DVD
Portable
DVD Player
DVD Home Theater
Play back on a variety of AV equipment

HighMAT is now available for CD Burning and in Leading DVD PlayersHighMAT is a new technology that is now available in leading software and consumer electronic devices to dramatically improve the digital media experience when you create homemade CDsHighMAT delivers a simple, standardized way for PC software and consumer electronics devices to talk to each other and work better together.

When you create your homemade CDs with software that supports HighMAT CD burning, and then play them back on a DVD player that supports HighMAT, you get better, easier navigation. You get folders you can access with a single click of your DVD player's remote control. You can view important information about your music like full song names, artist titles, album names and genre. And you can get faster startup on your home entertainment device.

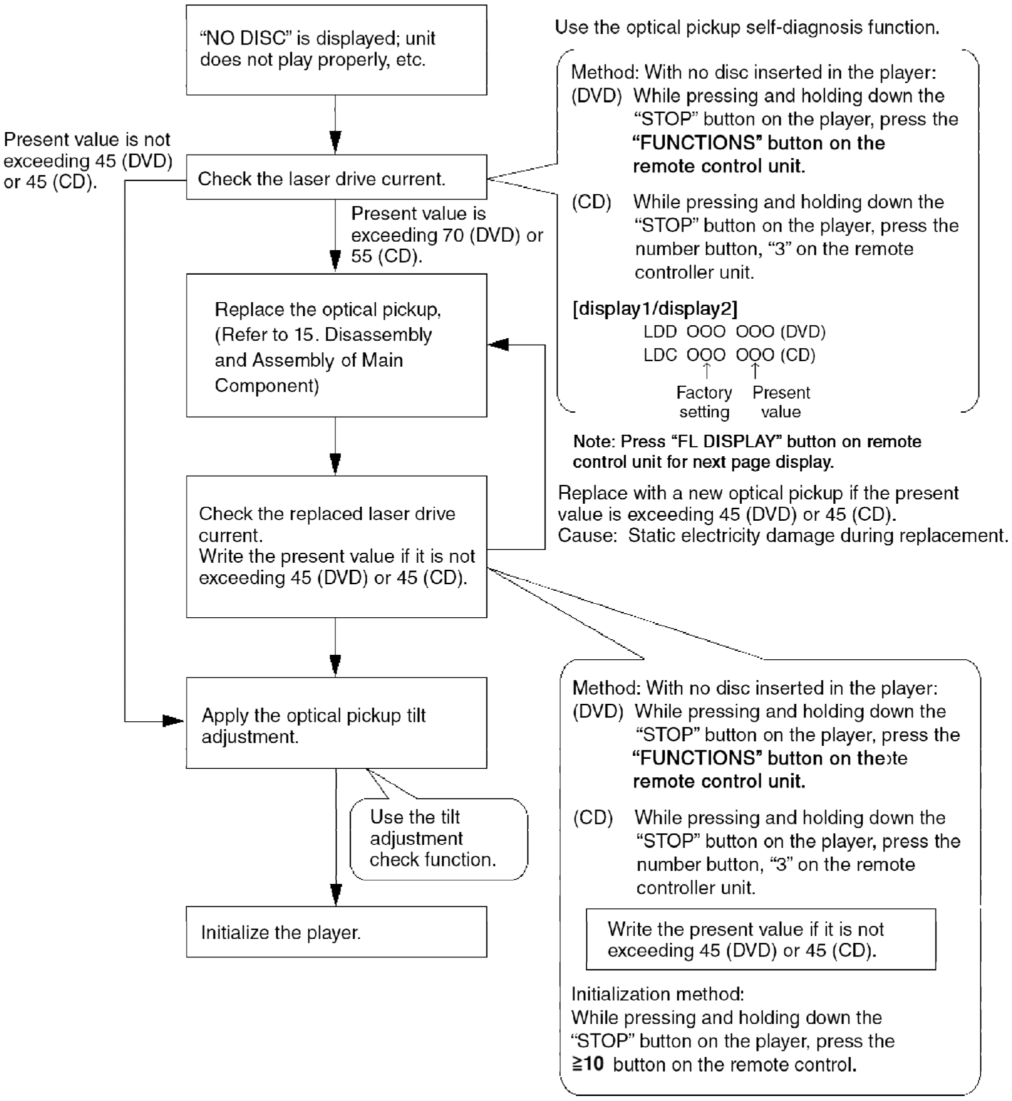
To enjoy the benefits of HighMAT, all you need is software that supports HighMAT for CD burning of music or photos, as well as a home entertainment device like a DVD player that supports HighMAT for playback. Always look for the HighMAT logo on your software or home entertainment device to ensure it supports the HighMAT experience.

12. Optical Pickup Self-Diagnosis and Replacement Procedure

12.1. Optical Pickup Breakdown diagnosis

This unit is equipped with the optical pickup self-diagnosis function and the tilt adjustment check function. Follow the procedure described below during repair in order to perform self-diagnosis and tilt adjustment effectively. Especially when “NO DISC” is displayed, be sure to apply the self-diagnosis function before replacing with an optical pickup. Replacement of optical pickup generally requires when the present value of laser drive exceeds 45 (DVD) or 45 (CD).

Note:
Start diagnosis within three minutes after turning on the power (as diagnosis fails when the unit becomes warm).



“NO DISC” is displayed; unit does not play properly, etc.

Check the laser drive current.

Present value is not exceeding 45 (DVD) or 45 (CD).

Present value is exceeding 70 (DVD) or 55 (CD).

Replace the optical pickup, (Refer to 15. Disassembly and Assembly of Main Component)

Check the replaced laser drive current.
Write the present value if it is not exceeding 45 (DVD) or 45 (CD).

Apply the optical pickup tilt adjustment.

Use the tilt adjustment check function.

Initialize the player.

Use the optical pickup self-diagnosis function.

Method: With no disc inserted in the player:
(DVD) While pressing and holding down the “STOP” button on the player, press the **“FUNCTIONS” button on the remote control unit.**
(CD) While pressing and holding down the “STOP” button on the player, press the number button, “3” on the remote controller unit.

[display1/display2]
LDD OOO OOO (DVD)
LDC OOO OOO (CD)
Factory setting
Present value

Note: Press “FL DISPLAY” button on remote control unit for next page display.

Replace with a new optical pickup if the present value is exceeding 45 (DVD) or 45 (CD).
Cause: Static electricity damage during replacement.

Method: With no disc inserted in the player:
(DVD) While pressing and holding down the “STOP” button on the player, press the **“FUNCTIONS” button on the›te remote control unit.**
(CD) While pressing and holding down the “STOP” button on the player, press the number button, “3” on the remote controller unit.

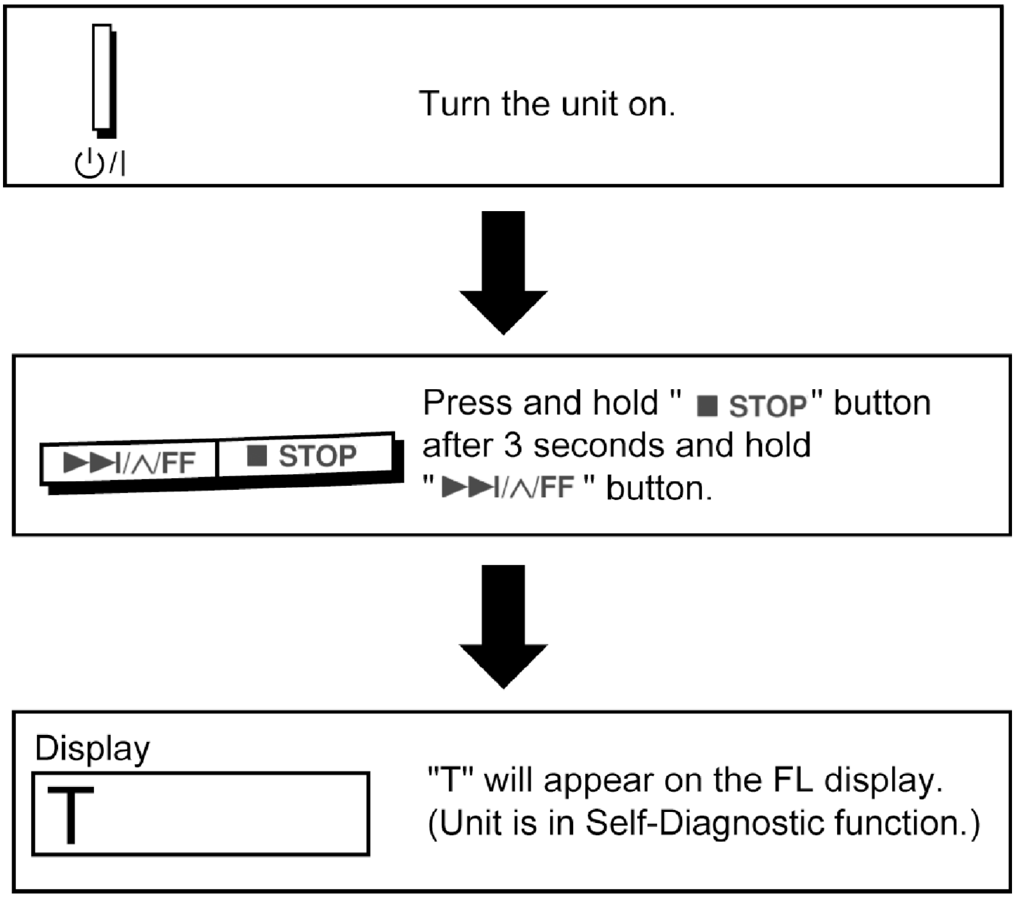
Write the present value if it is not exceeding 45 (DVD) or 45 (CD).

Initialization method:
While pressing and holding down the “STOP” button on the player, press the **≧10** button on the remote control.

13. Self-Diagnosis Function

This unit is equipped with the self-diagnosis function, which displays an error when it occurs, for use during servicing.

13.1. Entering into Self-Diagnostic Mode



Turn the unit on.

Press and hold " ■ STOP " button after 3 seconds and hold " ▶▶I/∧/FF " button.

"T" will appear on the FL display. (Unit is in Self-Diagnostic function.)

13.2. Automatic Displayed Error Codes

13.2.1. Automatic Display Function

For a power unit error, the code is automatically displayed.

F61:

Automatically displayed on the LCD of the player.

13.2.2. Re-Display

- **For F61 Display**
- **When the code, F61 is displayed, the power is automatically turned off.**
- **The code, F61 is displayed for three seconds, and then the current time appears.**
- **To retrieve the code, turn on the power button so that the code F61 appears, however, is switched to time display after three seconds, and the power is automatically turned off.**
- **For F76 Display**
- **The abnormalities is an output or the abnormalities in a power supply of POWER AMP IC.**

13.2.3. Description of Error Code

13.2.3.1. F61

- State, Condition

When the power is turned on, the unit is automatically turned off. The power does not turn on.

- Cause, Troubleshooting

Power circuit system failure and/or direct current flown to speaker terminal / Identify the cause and replace with new parts.

13.3. Memorized Error Codes

13.3.1. Activating Self-Diagnosis Function and Displaying Method

1. Turn on the power.

2. Select DVD/CD function. With no DVD/CD inserted in the player, press ■ and hold down the button for at least two seconds, and press the "0" button on the remote control for at least two seconds in order to display "DVD_F---".

3. Press the ■ button. If a memorized error is detected, the result of self diagnosis is displayed. (Ex.: T H15) / If several errors are detected, press the ■ button to display each.

13.3.2. Re-Display

- Press the power button to turn off the power, and then turn on the power.

- The details of self diagnosis are stored in the unit memory. / To retrieve them, follow the procedure described the above, "Activating Self-Diagnosis Function and Displaying Method".

13.4. Service Mode Table 1

Following modes are available with combinations of the pressed buttons on the player and on the remote controller unit.

Player	Remote Controller Unit	Usage
■ button	0	Error code display (Refer to the Item 13.5. DVD/CD Self-Diagnos Code Description)
	5	Tilt adjustment (Jitter)
	6	Region number and broadcasting system check
	8	Bulit-in program version check (Micro-P)
	FUNCTIONS	DVD laser drive current check
	3	CD laser drive current check
	PAUSE	Writing of laser drive current value after replacement of optical (Do use this function only when optical pickup is replaced.)
	≧10	Initialization of the player (factory setting is restored.) / Used af replacement of micro-computer and its peripherals and printed board.

13.5. DVD/CD Self-Diagnosis Error Code Description

Error Code	State, Conditon	Cause, Troubleshooting
H15	The disc tray cannot be opened: it closes spontaneously.	Disc tray open/close detection switch (S failure. / (Check and replace)
H16	The disc tray cannot be closed: it opens spontaneously.	

Error Code	Meaning	Details
U. H. Error		
U11	Focus servo failure	
H01	Tray loading failure	
H02	Spindle servo failure	(Spindle servo, DSC, SP motor, CLV ser
H03	Traverse motor failure	
H04	Tracking servo error	
H05	Seek timeout failure	
DSC system		
F500	DSC failure	DSC stops due to servo failure. / (Startu failure, etc.)
F501	DSC not Ready failure	Communication failure between DSC an computer / (No communication because does not move)
F502	DSC Time out failure	See F500.
F503	DSC communication failure	Communication failure (Result failure o after communication command is trans
F505	DSC Attention Error	See F500.
F506	Invalid media	Disc is placed upside down; TOC is unr or invalid disc is inserted.
Disc Code		

Error Code	Meaning	Details
F103	Illegal highlight position	Disc standard is possibly illegal when h is displayed.
IIC Error		
F4FF	Forced initialization failure (Time out)	
F880	Unsuitable task number	When a message arrives from not existi
F890	A message is sent during AV task transmission	During transmission of a message to A
F891	Unable to transmit a message to AV task	When transmission of a message to AV starts
F893	DVD Module problem	Check for firmware version
F894	EEPROM failure	
F895	Firmware compatibility problem	Check for firm version for Main & DVD P.C.B.
F897	Initialization is not done properly	Follow proper steps for initialization &
F8A0	Unsuitable message command	When transmission of a message to AV starts

13.6. Mode Table 2

Following modes are available with combinations of the pressed buttons on the player and on the remote controller unit.

Item	Operational Condition and Key Function	Details	Display	TO
Jitter display	While the player is stopped and no disc is inserted, press and hold ■ down the button on the player and the number button, “5” on the remote controller unit.	Jitter display / Measures and displays jitter. Measurement is repeated every second. Read error counter starts at 0 at the mode setting, and increased by one as data read fails at target block. A small defect is allowed to correct by retry. Any possibility is counted as one increment. Repetitive errors after retry increase by two levels or more.	J*1 xxx/yyy zz (display1/ display2) / / *1 : Jitter display mode / *2 : Jitter measurement value / *3 : Read error counter / *4 : Focus driving value Values are shown to one decimal place in the decimal digit. Focus driving value is displayed in the hexadecimal digit.	Pre STO on t
Error code display	While the player is stopped and no disc is inserted, press and hold ■ down the button on the player and the number button, “0” on the remote controller unit.	Error code display / Displays the latest error code stored in EEPROM.	DVD_F--- / *nn: Error history / *--: Error number	Pre STO
Measurement of laser current electricity initialization value	While the player is stopped and no disc is inserted, press and hold ■ down the button on the player and the ⏸ button on the remote controller unit. Press “FL Display” button for next page	Measurement of laser current electricity initialization value / Memorizes each initialization value of DVD and CD in EEPROM.	LDO*1/xxx*2 yyyy*3 (display1/display2) / / *1 : Laser current electricity measurement mode / *2 : DVD current electricity value / *3 : CD current electricity value Values are shown in the decimal digit. The above example indicates that the current electricity initialization value is 13mA at DVD laser and 32mA at CD laser when laser is turned on.	Aut exit mo five

Item	Operational Condition and Key Function	Details	Display	TO
Measurement of DVD laser current electricity	While the player is stopped and no disc is inserted, press and hold ■ down the button on the player and the FUNCTIONS button on the remote controller unit. Press "FL Display" button for next page	Measurement of DVD laser current electricity / Measures DVD laser current electricity and displays the result together with the initialization value stored in EEPROM. After measurement, DVD laser is lit till the power is turned off (or goes off when the primary power is turned off).	LDD*1/xxx*2 yyyy*3 (display1/display2) / / *1 : DVD laser current electricity measurement mode / *2 : Current electricity initialization value stored in EEPROM / *3 : Present value of current electricity Values are shown in the decimal digit. The above example indicates that the current electricity initialization value is 12mA and its present value is 14mA.	Aut exit mo five
ADSC internal RAM display	While the player is stopped and no disc is inserted, press and hold ■ down the button on the player and the number button "1" or "2" on the remote controller unit.	ADSC internal RAM display / Reads and displays the RAM value inside ADSC. The address is renewed when the CLEAR key is pressed so that the values at eleven points appear.	FB0_0000 Values are shown in the hexadecimal digit. The above example indicates that ADSC value at the address, FB0h is 0000h.	Pre STC on t

Item	Operational Condition and Key Function	Details	Display	TO
Measurement of CD laser current electricity	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button "3" on the remote controller unit. Press "FL Display" button for next page	Measurement of CD laser current electricity / Measures CD laser current electricity and displays the result together with the initialization value stored in EEPROM. After measurement, CD laser is lit till the power is turned off (or goes off when the primary power is turned off).	LDC*1/xxx*2 yyyy*3 (display1/display2) / / *1 : CD laser current electricity measurement mode / *2 : Current electricity initialization value stored in EEPROM / *3 : Present value of current electricity Values are shown in the decimal digit. The above example indicates the current electricity initialization value is 28mA and its present value is 26mA when laser is turned on.	Aut exit mo five
User initialization	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button ≧10 on the remote controller unit.	User initialization / The user setting recovers the factory setting.	"INIT"	Aut exit mo five
Region display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, "6" on the remote controller unit.	Region display	[s rr zzz] / / s : Panecon model type / rr : Panecon release number zzz: Syscon release number	Aut exit mo five

Item	Operational Condition and Key Function	Details	Display	TO
Firmware version display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “7” on the remote controller unit. Press “FL Display” button for next page	Firmware version display	rrr*1 xx*2 y*3 zzz*4 / / *1 : Panel computer release number / *2 : System computer generation / *3 : System computer model type / *4 : System computer release number	Aut exit mo five
Region and firmware display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “8” on the remote controller unit.	Region and firmware version display	x*1 y*2 z*3 w*4 / / *1 : Region number / *2 : System computer generation / *3 : System computer model type / *4 : System computer release number	Aut exit mo five
Laser use time	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the ▲ button on the remote controller unit. Press “FL Display” button for next page	Laser usage time / Measures each for DVD and CD respectively.	T1_ _1234/5678 (display1/ display2) / / The numbers in the left show usage time for DVD laser and those in the right for CD laser. The four-digit number is shown by the ten hours in the decimal digit. The number after 0000 is 9999.	Aut exit mo five

Item	Operational Condition and Key Function	Details	Display	TO
Reset laser use time	While the usage time 1 is displayed, press and hold down the ■ button on the player and the ▼ button on the remote controller unit.	Laser usage time reset / Resets both for DVD and CD at once.	T1_ _0000/0000 (display1/ display2)	Aut exit mo five
Spindle use time	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the ▶ button on the remote controller unit.	Spindle motor usage time	T2_00000 / / The four-digit number is shown by the ten hours in the decimal digit. The number after 00000 is 99999.	Aut exit mo five
Reset spindle use time	While the usage time 2 is displayed, press and hold down the ■ button on the player and the ◀ button on the remote controller unit.	Usage time 2 reset / Spindle motor usage time	T2_ _00000	Aut exit mo five

Item	Operational Condition and Key Function	Details	Display	TO
Communication error display /	While the player is stopped and no disc is inserted, press and hold ■ down the button on the player and the MENU button on the remote controller unit. Press “FL Display” button for next page	Displays frequency of communication errors between system computer firm IC and mechanical computer IC during DVD module.	ECC_ _ _ 00	Pre STO Ope on t

13.7. CR16 Mechanism Ageing Mode

To perform the ageing mode:

1. **Enter into Test mode.**
2. **Press [3] button on remote control. It enters into ageing mode. (see below for ageing process)**

Ageing process:

1. **Tray 1 open.**
2. **It waits for one second (Note: Do not put any disc into the tray.**
3. **Tray close.**
4. **TOC READ (Reading incomplete)**
5. **Tray 2 open & repeat step 1 to step 4. (Process repeat until Tray 5)**
6. **Tray check.**
7. **Whole process complete (Counter on FL increase by 1)**

Note: To exit ageing mode, press [POWER] button. The unit will power down. Do not unplug the power cord until FL display shows “GOODBYE”. This is to avoid tray jam problem.

13.8. Operation Lock Function

13.8.1. Setting

- Operation Lock Function

1. **With the DVD/CD/▶ and POWER ON, and then press the [POWER] KEY on the remote control for 3 seconds to enter Lock mode B.**
   [_LOCKED_] will be displayed for 3 seconds, and the current disc will begin playing.
2. **Lock mode B primarily controls the selector and disc operations, and disenables for the following keys.**

Note:

OPEN/CLOSE ⏏ button are invalid and the player displays "_LOCKED_" while the lock function mode is entered.

- Prohibiting operation of selector and disk

1. **Select the DVD/CD/▶ function.**

2. **Press and hold down the DVD/CD/▶ button on the player and the power button on the remote controller unit for at least three seconds. (The message, "_LOCKED_" appears when the function is activated.)**

Note:
The following buttons are invalid and the player displays "_LOCKED_" while the lock function mode is entered.

Main unit: DISC CHECK, ⏏, OPEN/CLOSE, ⏏, DISC CHANGE, 1–5, REW/∨/I◀◀,
▶▶I/∧/FF, TUNER/BAND, AUX, ■ STOP, ◀ ▶, TAPE,
● REC

Remote control: 0 – 9, ≧10, QUICK OSD, V.MUTE, II, ■, CANCEL, MANUAL SKIP, QUICK REPLAY,
TUNER/AUX, ◀ ▶, TAPE, FUNCTIONS, GROUP, SHIFT, REW/∨/I◀◀, ▶▶I/∧/FF,
MUTING, CLOCK/TIMER, SLEEP, FL DISPLAY, DIMMER, DISC, TUNER PGM,
CD MODE, REPEAT, A.DISC REVIEW, PLAY SPEED, RETURN, ZOOM,
◀◀, ▶▶, SLOW/SEARCH

13.9. Things to Do After Repair

Follow the procedure described below after repair.

1. **While the power is on, press the ⏏ button to close the tray.**

2. Press the power button to turn off the power.

3. Unplug the power cable.

Note:
It is prohibited to unplug the power cable while the tray is opened and to close the tray manually.

14. Cautions To Be Taken During Servicing

14.1. Recovery after the dvd player is repaired

- When Flash ROM or DVD Module P.C.B. is replaced, carry out the recovery processing to optimize the drive. Playback the recovery disc to process the recovery automatically.
- Recovery disc (Product number=RFKZD03R005)
- Performing recovery

1. Load the recovery disc (Product number: RFKZD03R005) to the player and run it.
2. Recovery is performed automatically. When it is finished, a message appears on the screen.
3. Remove the recovery disc.
4. Turn off the power.

14.2. DVD Player Firmware Version Upgrade Process

Firmware of DVD player may upgrade to conform to improvement of its performance and quality including operational range, playability of non-standardized discs, etc. The version upgrade disc contains the recovery function, and the recovery disc is not necessary.

Note:
Version upgrade process cannot be complete if the AC power is cut off due to power failure and other occasions during the process. If this occurs, replace FLASH ROM IC and restart version upgrade. Version upgrade disc number is informed when ordered.

14.3. Firmware Version Upgrade Process by Using Disc and Recovery Process

- Recovery process
- Firmware version upgrade process

Both of the above procedures automatically start when the recovery disc is replayed.General CD -R disc allows version upgrade process and recovery process, making version upgrade through disc simple. / Recovery process: Optimization process of player after replacement of FLASH ROM, EEPROM, or module circuit board / Version upgrade process: Renewal of firmware for improvement of operational range and performance

14.4. Using Recovery Disc

14.4.1. Recovery Process

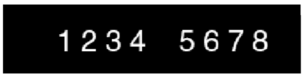
1. Insert the recovery disc (RFKZD03R005) to the player to replay.
2. The recovery process automatically starts, and a message of completion prompts on the screen.
3. Remove the disc.
4. Turn off the power.

14.4.2. Version Upgrade Process

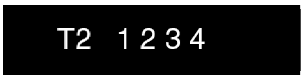
1. Insert the recovery disc to the player to replay.
2. The version of player is automatically checked and prompts if necessary.
3. Select version upgrade process using the cursor keys on the remote controller unit. (Select YES or NO)
4. a. If YES is selected, the process starts.
   b. If NO is selected, only the recovery process is applied.
5. a. When the version upgrade process is complete, a message of completion appears on the screen. Remove the disc.
   b. Follow the instruction appearing on the screen, and remove the disc.
6. Turn off the power.

14.5. Total Usage Time Display

1. Details of Operation/Display



Total usage time of DVD/CD lasers
Time is shown by the ten hours in the decimal digit.



Total usage time of spindle motor
Time is shown by the ten hours in the decimal digit.

Keys for Operation: / Laser usage time: While the player is stopped and no disc is inserted, press both the ■ button on the player and the ▲ button on the remote controller unit. / Spindle motor usage time: While the player is stopped and no disc is inserted, press both the ■ button on the player and the ▶ button on the remote controller unit. / / To reset the usage time, while the usage time is displayed: / Laser usage time: press both the ■ button on the player and the ▼ button on the remote controller unit. / Spindle motor usage time: press both the ■ button on the player and the ◀ button on the remote controller unit.

2. Purpose of Use
   To obtain reference data of laser and spindle motor systems during failure diagnosis. / To check faulty parts during re-repair.

14.6. After replacement of DVD Module

Below steps is to be performed after changing of DVD Module

1. Press ≥10 on remote control while pressing “STOP” on main unit.
2. FL will display “INITIALIZE”.
3. Press “STOP” & “ENTER” on remote control (For reset of unit)
4. FL will display “DVD RESET” before change to TOC reading again.
5. Power off the set. Unplug AC cord & wait for few seconds.
6. Plug in AC cord & power on set.

15. Disassembly and Assembly of Main Component

“ATTENTION SERVICER”
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures. / Special reassembly procedures are

described only when required.

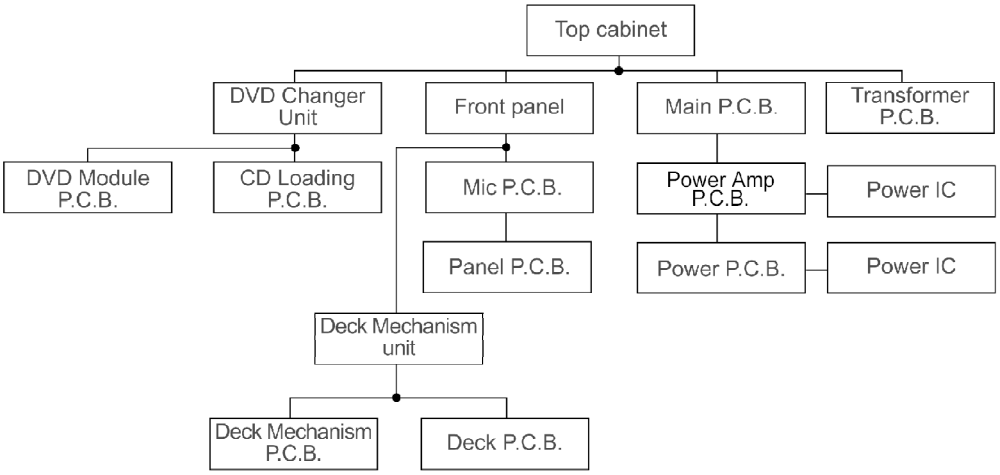
3. **Select items from the following index when checks or replacement are required.**
4. **Refer to the Parts No. on the page of "Parts Location and Replacement Parts List" (Section 25), if necessary.**

15.1. Disassembly steps

- **Disassembly of Top Cabinet**
- **Disassembly of Rear Panel**
- **Disassembly of DVD Changer Unit**
- **Disassembly of Main P.C.B.**
- **Disassembly of Power Amp P.C.B.**
- **Disassembly of Power P.C.B.**
- **Disassembly of Transformer P.C.B.**
- **Disassembly of Front Panel Unit**
- **Disassembly of Mic P.C.B. & Panel P.C.B.**
- **Disassembly of Deck Mechanism Unit**
- **Replacement for Deck P.C.B.**
- **Replacement for Traverse Deck**
- **Replacement for Optical Pickup Unit (DVD Mechanism)**
- **Procedure for removing CD loading mechanism**
- **CR16 mechanism disassembly procedure**
- **CR16 mechanism assembly procedure**
- **Disassembly for Traverse Unit**
- **Replacement for cassette lid**
- **Rectification for tape jam problem**

15.2. Disassembly flow chart

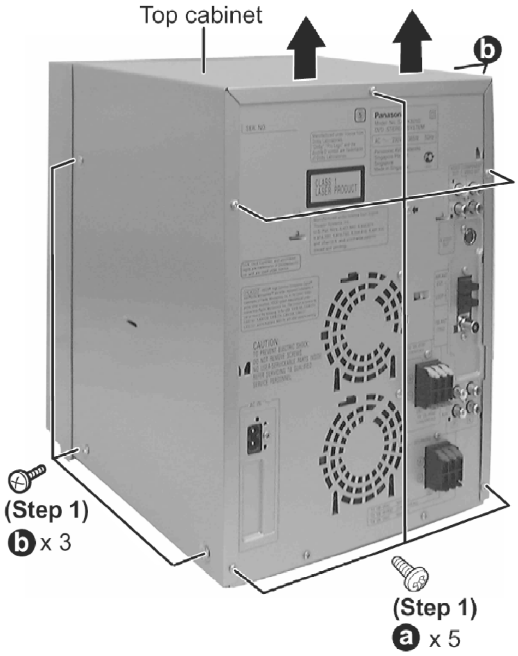
The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.
To assemble the unit, reverse the steps shown in the chart as below.


Top cabinet
DVD Changer Unit
Front panel
Main P.C.B.
Transformer P.C.B.
DVD Module P.C.B.
CD Loading P.C.B.
Mic P.C.B.
Power Amp P.C.B.
Power IC
Panel P.C.B.
Power P.C.B.
Power IC
Deck Mechanism unit
Deck Mechanism P.C.B.
Deck P.C.B.

15.3. Disassembly of Top Cabinet

Step 1 Remove 3 screws at each side and 5 screws at rear panel.

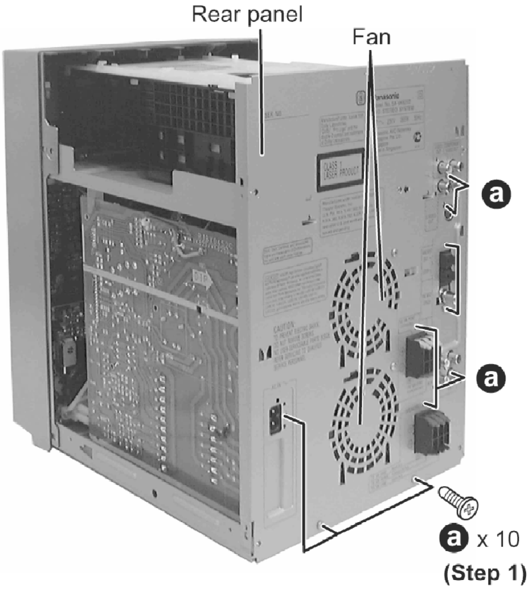
Step 2 Lift up both sides of the top cabinet, push the top cabinet towards the rear to remove the top cabinet.


Top cabinet
b
(Step 1)
b x 3
(Step 1)
a x 5

15.4. Disassembly of Rear Panel

- Follow the (Step 1) - (Step 2) of Item 15.3 - Disassembly of Top Cabinet

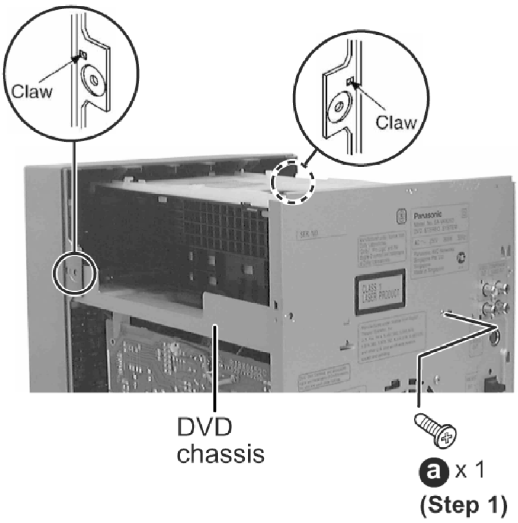
Step 1 Remove 12 screws and disconnect cables CN2810 and CN2813 (Fan) at rear panel as shown.


Rear panel
Fan
a
a
a x 10
(Step 1)

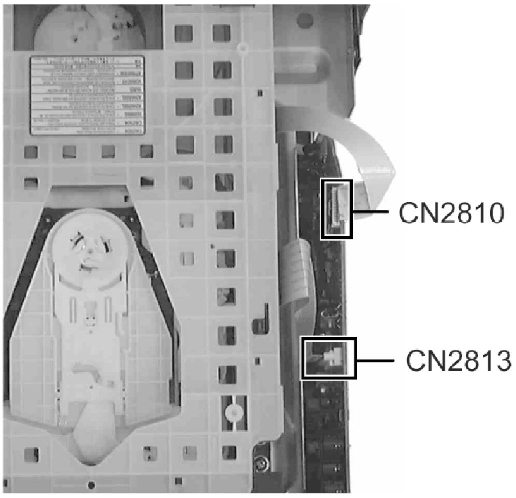
15.5. Disassembly of DVD Changer Unit

- Follow the (Step 1) - (Step 2) of Item 15.3 - Disassembly of Top Cabinet

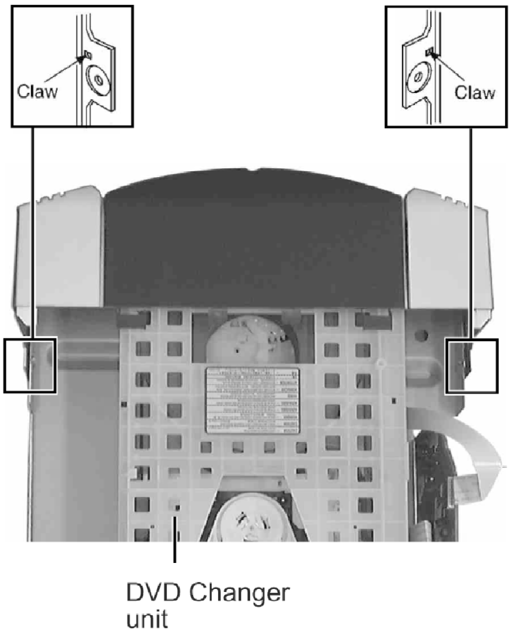
Step 1 Remove 1 screw at rear panel.

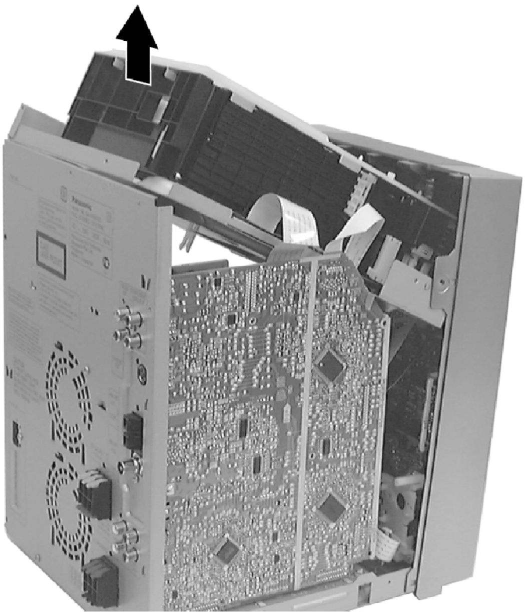

Claw
Claw
DVD chassis
a x 1
(Step 1)

Step 2 Detach the FFC cables (CN2810 & CN2813).

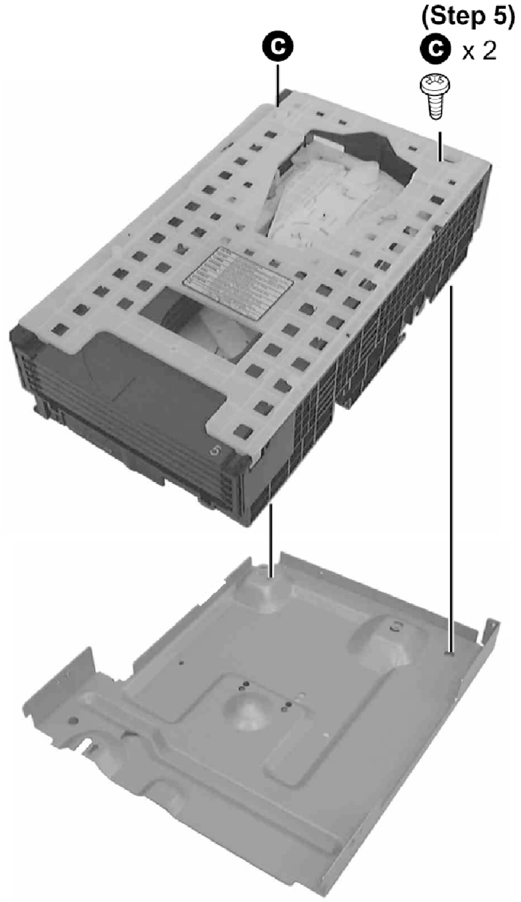

CN2810
CN2813

Step 3 Release the claws on both ends, and remove the DVD changer unit.


Claw
Claw
DVD Changer
unit



Step 4 Lift the DVD changer unit upwards.



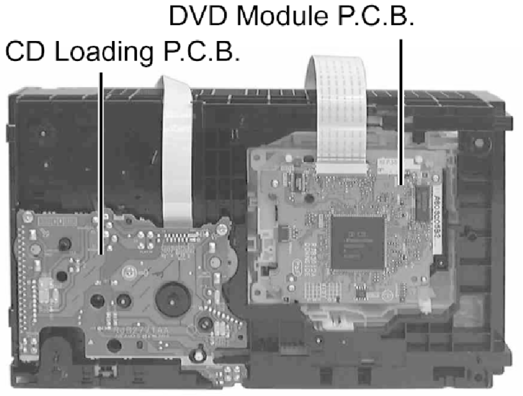
Step 5 Remove 2 screws.

Step 6 Remove the DVD chassis.

Step 7 Lay the unit.

- For disassembly of DVD mechanism unit, please refer to Section

15.16 of this manual.


DVD Module P.C.B.
CD Loading P.C.B.

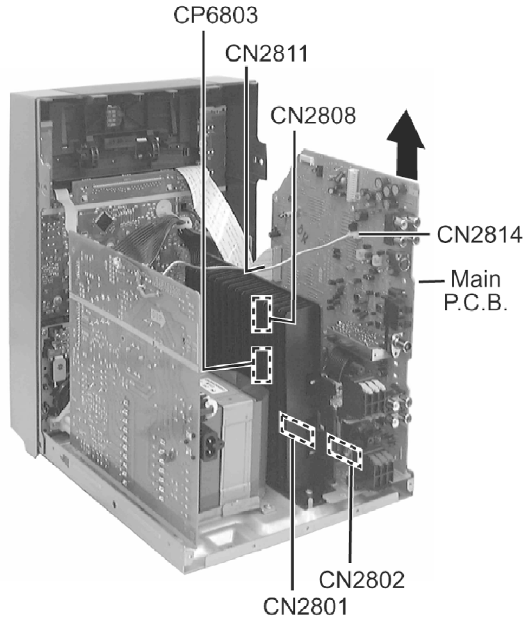
15.6. Disassembly of Main P.C.B.

- Follow the (Step 1) - (Step 2) of Item 15.3 - Disassembly of Top Cabinet

- Follow the (Step 1) of Item 15.4 - Disassembly of Rear Panel

- Follow the (Step 1) - (Step 4) of Item 15.5 - Disassembly of DVD Changer Unit

Step 1 Disconnect FFC cables (CP6803, CN2811, CN2808 and CN2814).


CP6803
CN2811
CN2808
CN2814
Main P.C.B.
CN2802
CN2801

Step 2 Lift up Main P.C.B. by disconnecting connectors CN2801 & CN2802 as arrow shown above.

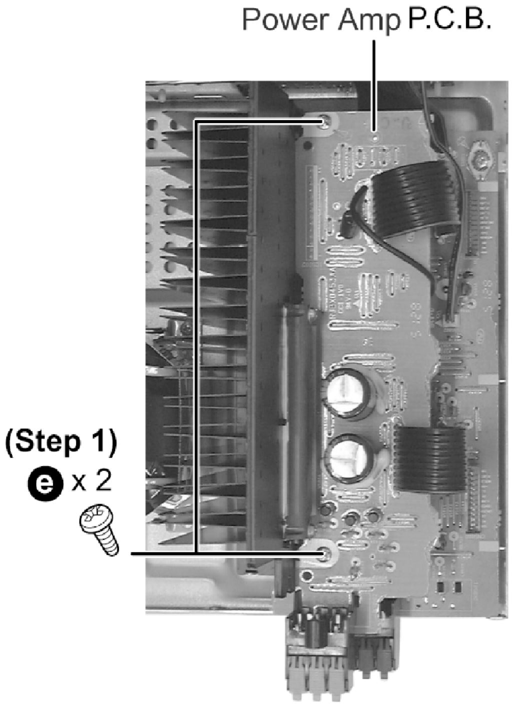
15.7. Disassembly of Power Amp P.C.B.

- Follow the (Step 1) - (Step 2) of Item 15.3 - Disassembly of Top Cabinet

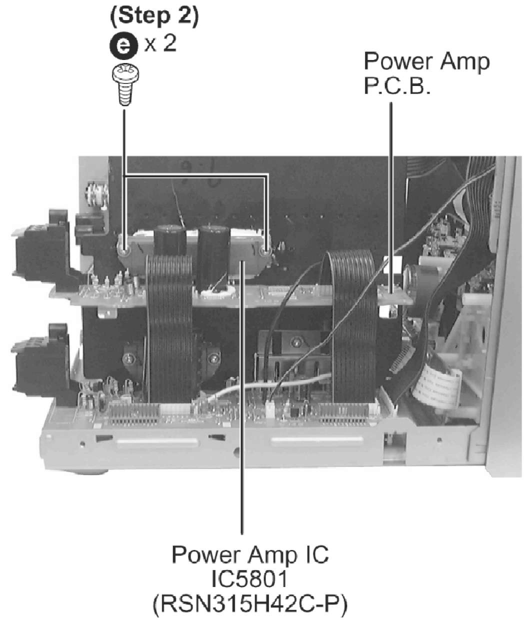
- Follow the (Step 1) of Item 15.4 - Disassembly of Rear Panel

- **Follow the (Step 1) - (Step 4) of Item 15.5 - Disassembly of DVD Changer Unit**
- **Follow the (Step 1) - (Step 2) of Item 15.6 - Disassembly of Main P.C.B.**

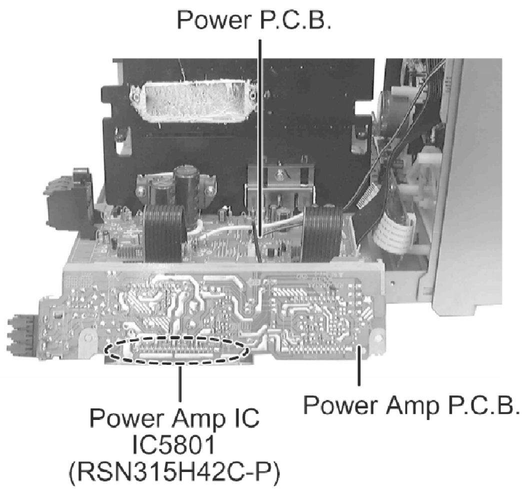
Step 1 Remove the 2 screws at Power Amp P.C.B..


Power Amp P.C.B.
(Step 1)
e x 2

Step 2 Remove the 2 screws at each Power Amp IC.


(Step 2)
e x 2
Power Amp
P.C.B.
Power Amp IC
IC5801
(RSN315H42C-P)

Step 3 Lift up the Power Amp P.C.B. to remove it.


Power P.C.B.
Power Amp IC
IC5801
(RSN315H42C-P)
Power Amp P.C.B.

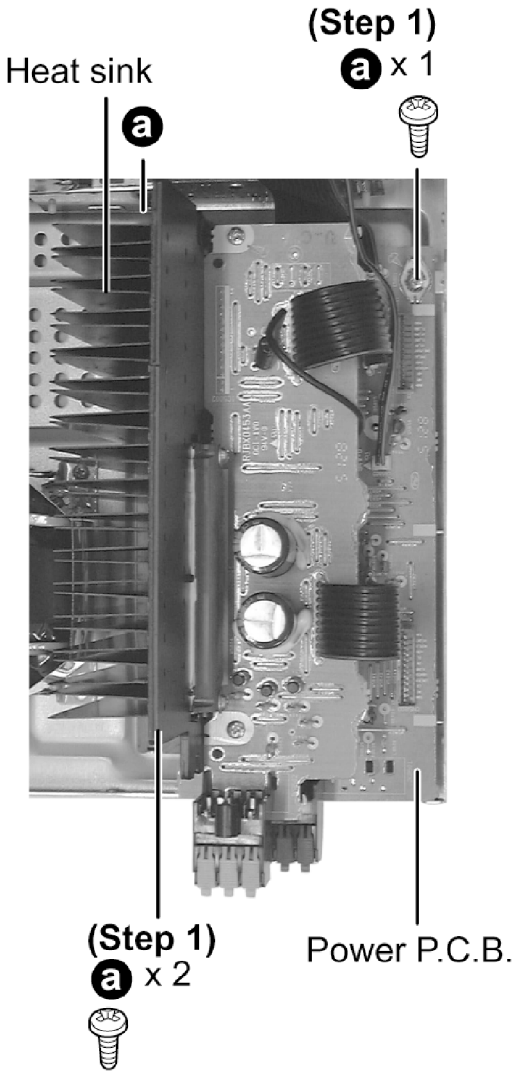
Step 4 Desolder wire at holder H5804.

- **Replacement of the Power Amp IC**
  Repeat Step 1 - Step 3 of Section 15.7 - Disassembly of Power Amp P.C.B.

15.8. Disassembly of Power P.C.B.

- **Follow the (Step 1) - (Step 2) of Item 15.3 - Disassembly of Top Cabinet**
- **Follow the (Step 1) of Item 15.4 - Disassembly of Rear Panel**
- **Follow the (Step 1) - (Step 4) of Item 15.5 - Disassembly of DVD Changer Unit**
- **Follow the (Step 1) - (Step 2) of Item 15.6 - Disassembly of Main P.C.B.**

Step 1 Remove the 2 screws at heat sink and 1 screw at Power P.C.B..

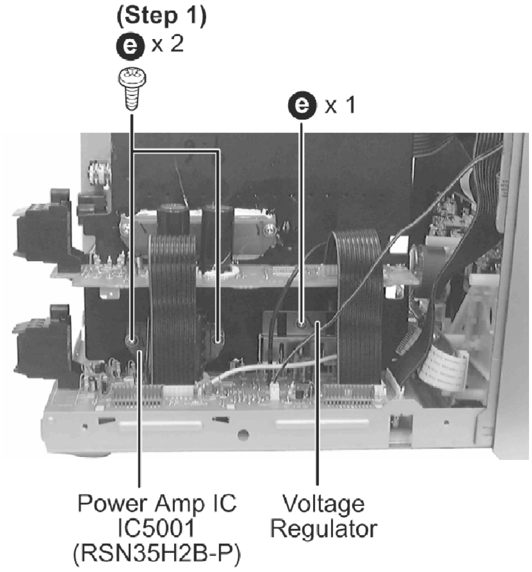

(Step 1)
a x 1
Heat sink
a
(Step 1)
a x 2
Power P.C.B.

Note:

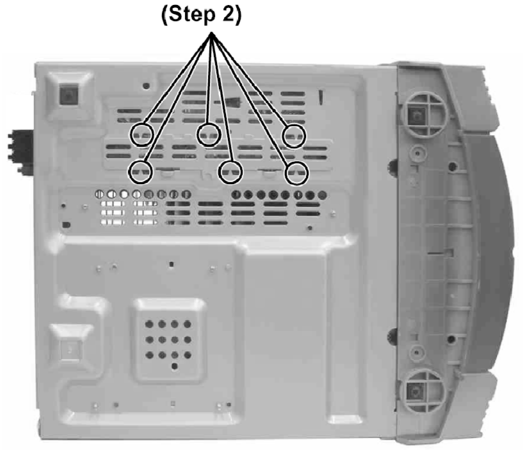
Insulate the Power P.C.B. with insulation material to avoid short circuit.

- Replacement of the Power Amp IC or Voltage Regulator

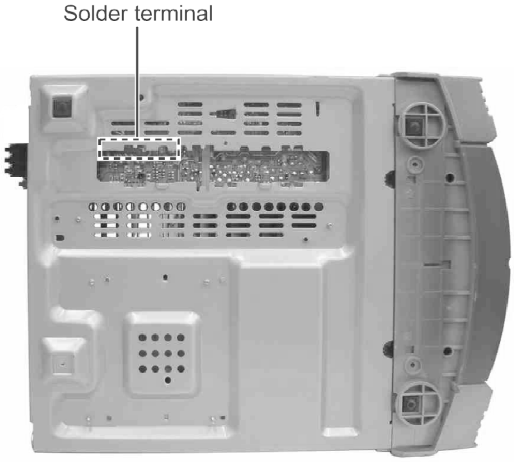
Step 1 Remove 2 screws at the Power Amp IC and or 1 screw to Voltage Regulator.


(Step 1)
e x 2
e x 1
Power Amp IC
IC5001
(RSN35H2B-P)
Voltage
Regulator

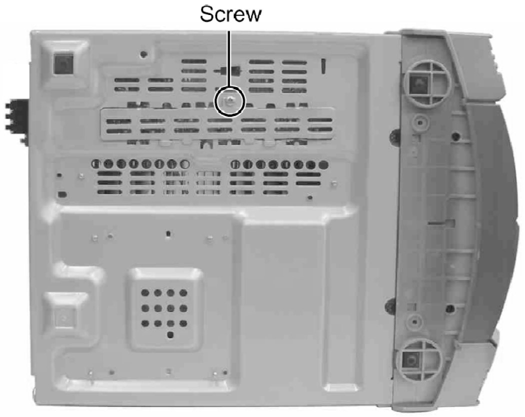
Step 2 Break the joints with a metal cutter as shown below.



Step 3 Unsolder the terminals to replace the components.


Solder terminal

Step 4 Fix back the cut portion with a screw as shown.

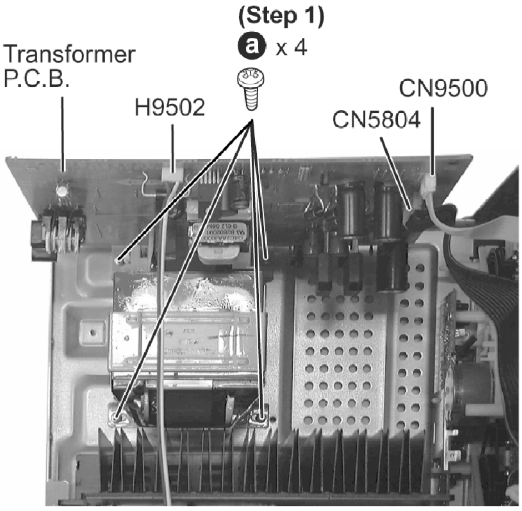


15.9. Disassembly of Transformer P.C.B.

- **Follow the (Step 1) - (Step 2) of Item 15.3 - Disassembly of Top Cabinet**
- **Follow the (Step 1) of Item 15.4 - Disassembly of Rear Panel**
- **Follow the (Step 1) - (Step 4) of Item 15.5 - Disassembly of DVD Changer Unit**
- **Follow the (Step 1) - (Step 2) of Item 15.6 - Disassembly of Main P.C.B.**
- **Follow the (Step 1) of Item 15.8 - Disassembly of Power P.C.B.**

Step 1 Remove 4 screws.

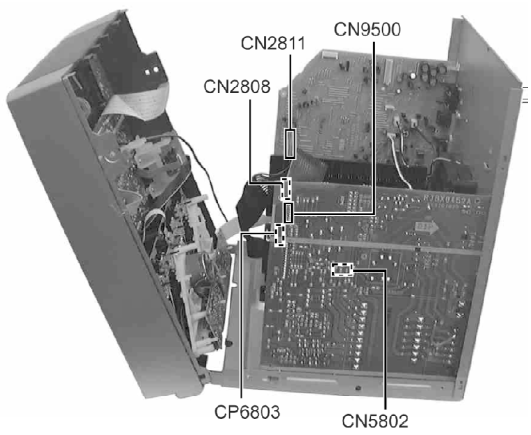
Step 2 Disconnect connectors CN5804, CN9500 & H9502.



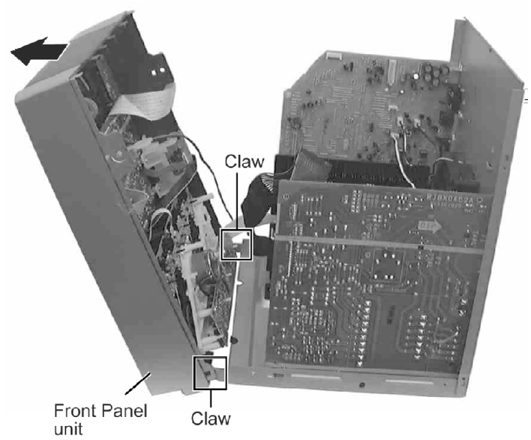
15.10. Disassembly of Front Panel Unit

- **Follow the (Step 1) - (Step 2) of Item 15.3 - Disassembly of Top Cabinet**
- **Follow the (Step 1) - (Step 4) of Item 15.5 - Disassembly of DVD Changer Unit**

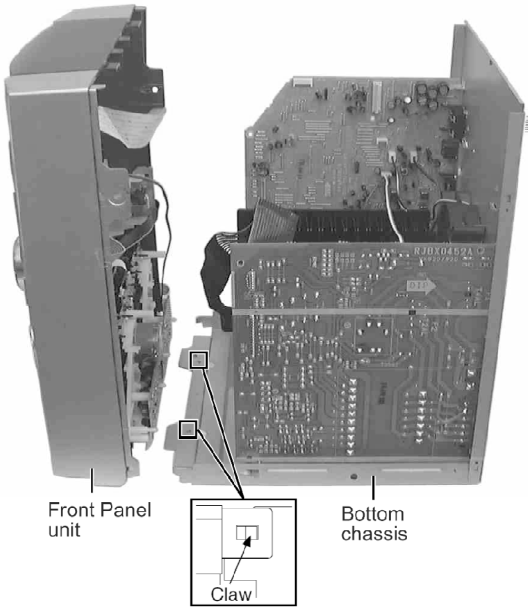
Step 1 Disconnect connectors CN9500, CN2811, CN2808, CP6803 & CN5802.


CN2811
CN9500
CN2808
CP6803
CN5802

Step 2 Bent the front panel unit forward as arrow shown.


Claw
Front Panel unit
Claw

Step 3 Press the 2 catch holders on both sides of the front panel unit to release the claws.

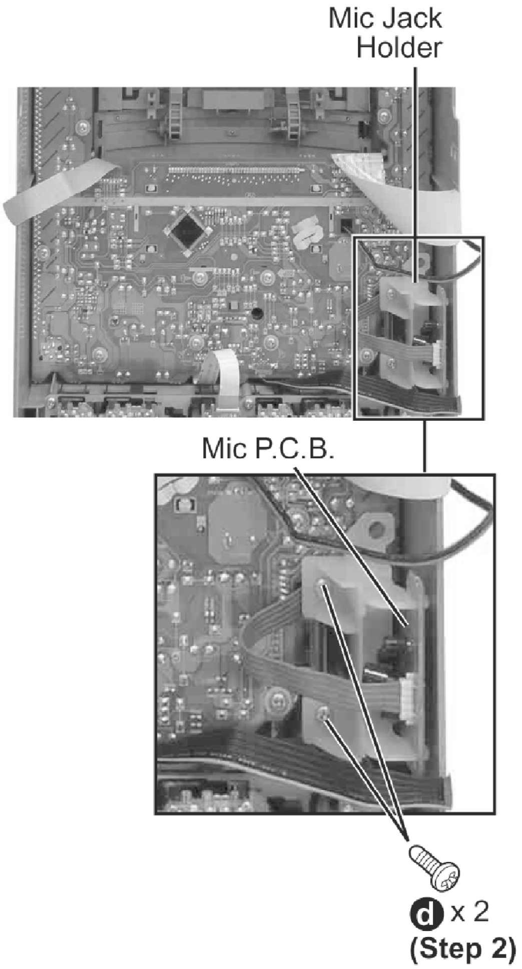

Front Panel unit
Bottom chassis
Claw

Step 4 Remove the front panel unit.
Note: Ensure 2 claws on bottom chassis is properly and fully catched to the front panel holes.

15.11. Disassembly for Mic P.C.B. & Panel P.C.B.

- **Follow the (Step 1) - (Step 2) of Item 15.3 - Disassembly of Top Cabinet**
- **Follow the (Step 1) - (Step 4) of Item 15.5 - Disassembly of DVD Changer Unit**
- **Follow the (Step 1) - (Step 4) of Item 15.10 - Disassembly of Front Panel Unit**

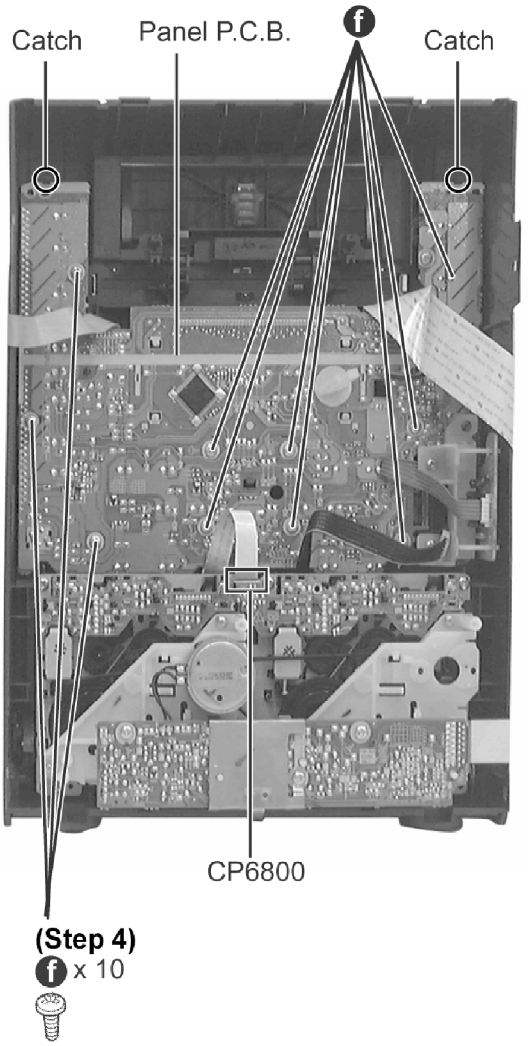
Step 1 Remove volume knob.



Step 2 Remove 2 screws.

Step 3 Lift up Mic Jack holder.

- Disassembly of Panel P.C.B.


Catch
Panel P.C.B.
f
Catch
CP6800
(Step 4)
f x 10

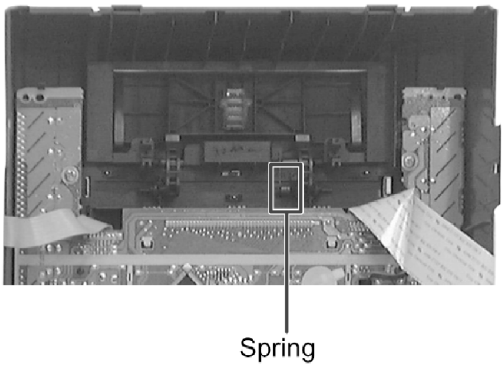
Step 4 Remove 10 screws.

Step 5 Disconnect FFC cable at CP6800.

Step 6 Release 2 catches.

15.11.1. Disassembly of Lid

Step 1 Lift the spring sideward.



Step 2 Remove Lid.

Note: Do not misplace the spring.

15.12. Disassembly of Deck Mechanism Unit

- Follow the (Step 1) - (Step 2) of Item 15.3 - Disassembly of Top Cabinet

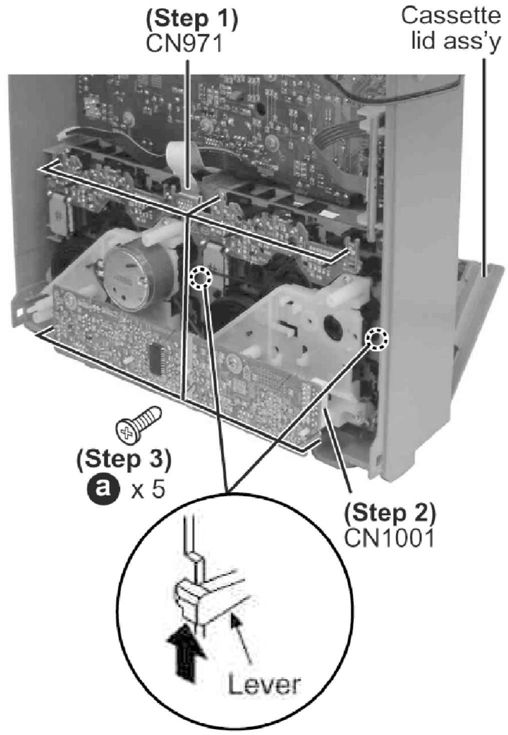
- Follow the (Step 1) - (Step 4) of Item 15.5 - Disassembly of DVD Changer Unit

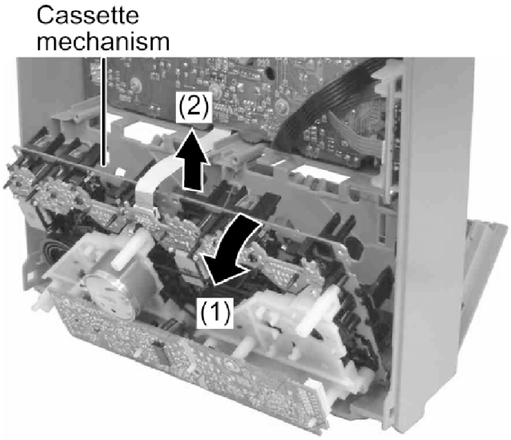
- Follow the (Step 1) - (Step 4) of Item 15.10 - Disassembly of Front Panel Unit

Step 1 Detach FFC wire CN971.

Step 2 Disconnect FFC flat cable from the connector CN1001.

Step 3 Remove the 5 screws.


(Step 1)
CN971
Cassette
lid ass'y
(Step 3)
a x 5
(Step 2)
CN1001
Lever


Cassette
mechanism
(2)
(1)

Step 4 Push the lever upward, and then open the cassette lid ass'y (For DECK1 and DECK2).

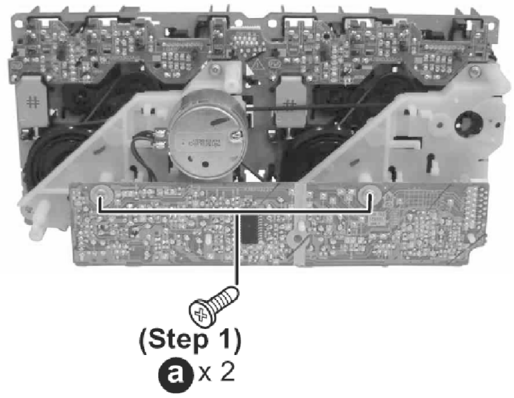
Step 5 Tilt the cassette mechanism unit in the direction of arrow (1), and then remove it in the

direction of arrow (2).

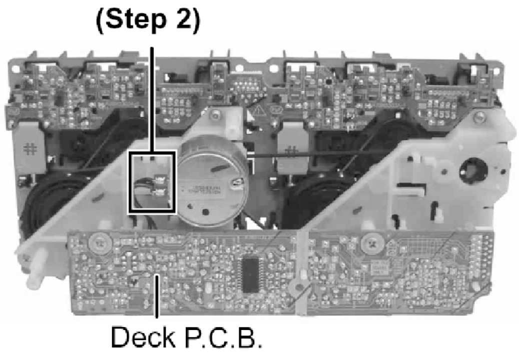
15.13. Replacement for Deck P.C.B.

- **Follow the (Step 1) - (Step 2) of Item 15.3 - Disassembly of Top Cabinet**
- **Follow the (Step 1) - (Step 6) of Item 15.5 - Disassembly of DVD Changer Unit**
- **Follow the (Step 1) - (Step 4) of Item 15.10 - Disassembly of Front Panel Unit**
- **Follow the (Step 1) - (Step 5) of Item 15.12 - Disassembly of Deck Mechanism Unit**

Step 1 Remove 2 screws.



Step 2 Unsolder the motor terminals.

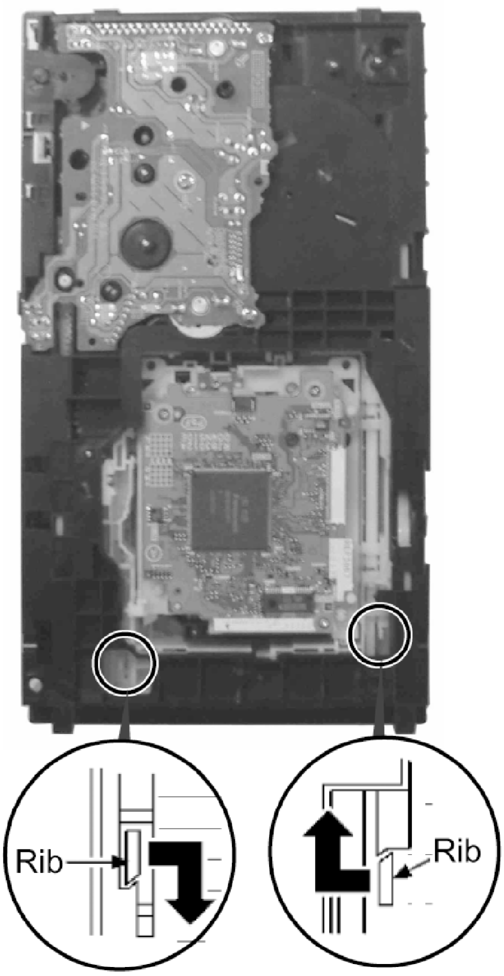


Step 3 Remove Deck P.C.B.

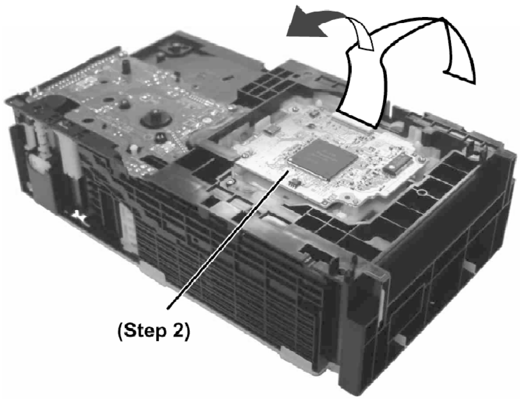
15.14. Replacement for Traverse Deck

- **Follow the (Step 1) - (Step 2) of Item 15.3 - Disassembly of Top Cabinet**
- **Follow the (Step 1) - (Step 7) of Item 15.5 - Disassembly of DVD Changer Unit**

Step 1 Move ribs at both sides to the arrow direction (The vertical rack (R) slides and the groove opens).



Step 2 Remove DVD traverse deck by rotating to the arrow direction.

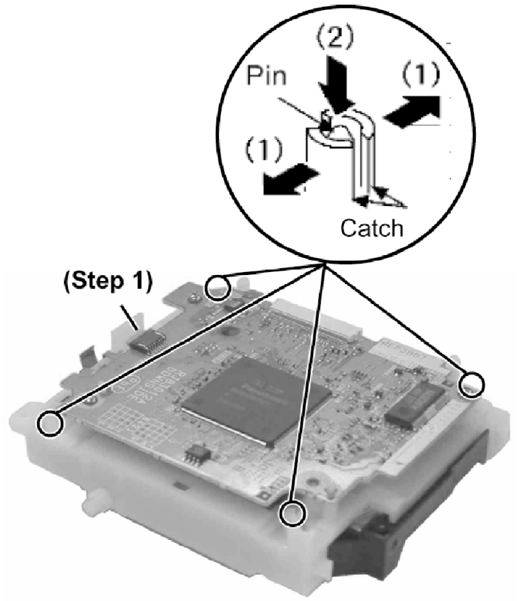


15.15. Replacement for Optical Pickup Unit (DVD mechanism)

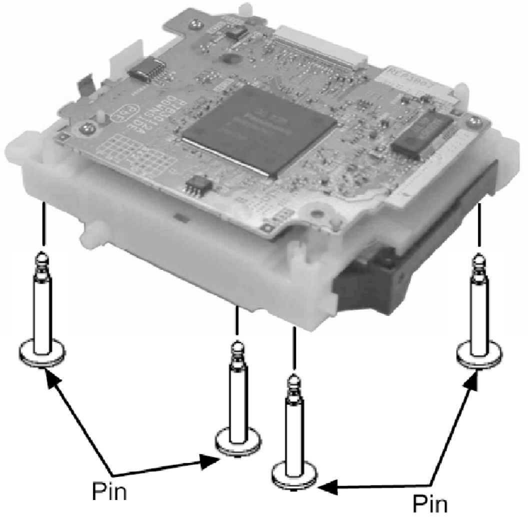
- **Follow the (Step 1) - (Step 2) of Item 15.3 - Disassembly of Top Cabinet**
- **Follow the (Step 1) - (Step 7) of Item 15.5 - Disassembly of DVD Changer Unit**
- **Follow the (Step 1) - (Step 2) of Item 15.14 - Replacement of**

Traverse Deck

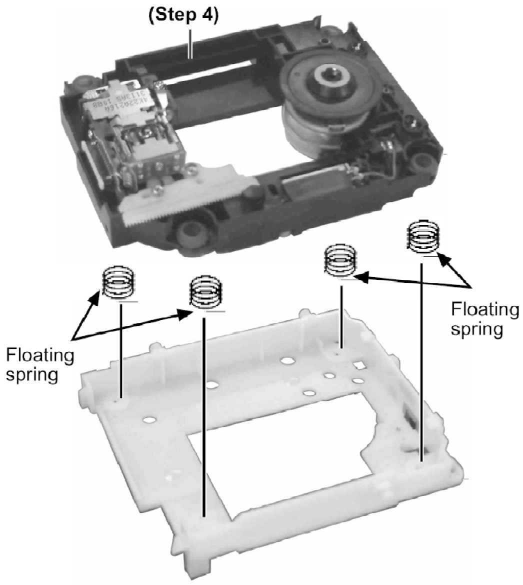
Step 1 Pull out FFC.


(2)
Pin
(1)
(1)
Catch
(Step 1)

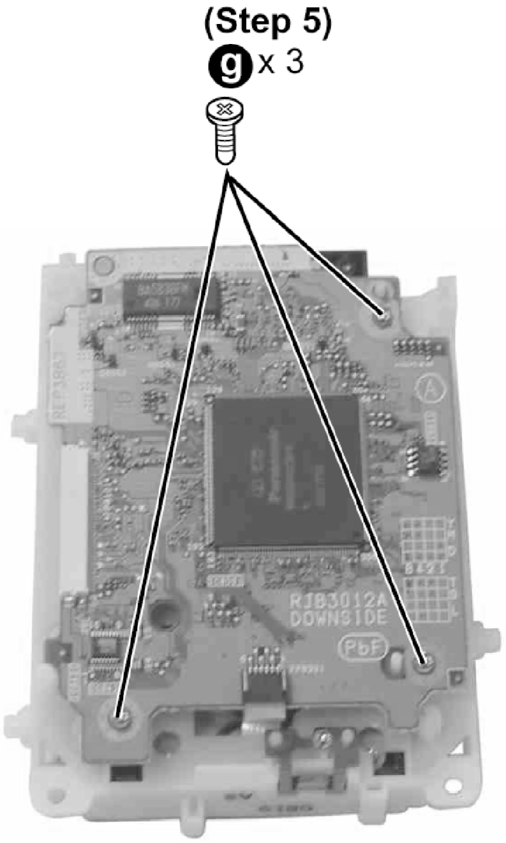
Step 2 Widening the catch, push the pin in.



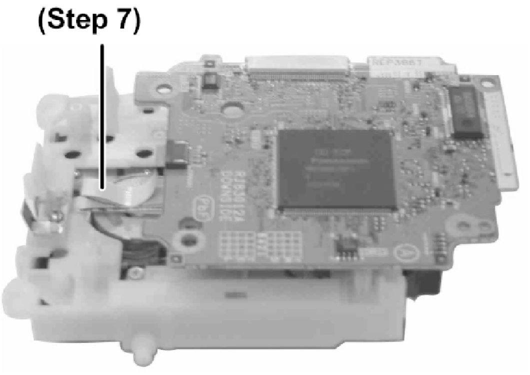
Step 3 Remove 4 pins.

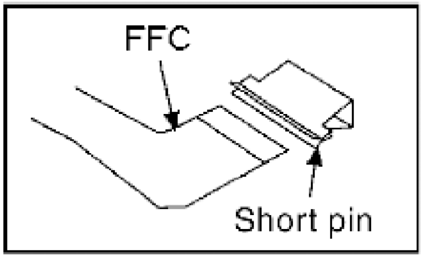

(Step 4)
Floating spring
Floating spring

Step 4 Remove the traverse deck.
Note: As floating springs (4 pieces) come off at the same time, be careful not to lose them.

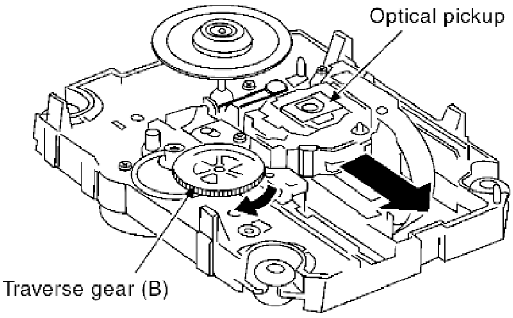

(Step 5)
g x 3
RJB3012A
DOWNSIDE
PbF

Step 6 Remove the dvd module board and turn it over.
Step 7 Pull FFC out from the connector.
Note: Insert a short pin into FFC of the optical pickup. [See “Notice on handling of the optical pickup”].

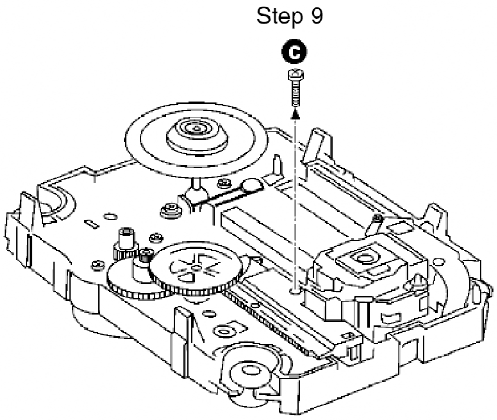



FFC
Short pin

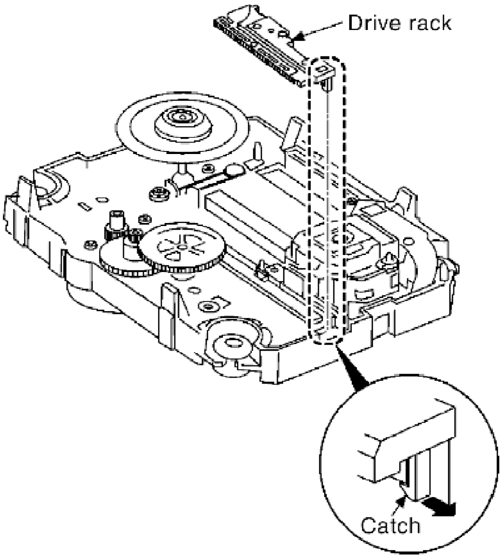
Step 8 Rotate the traverse deck (B) to the arrow direction and shift the optical pickup to the furthest backward.


Optical pickup
Traverse gear (B)

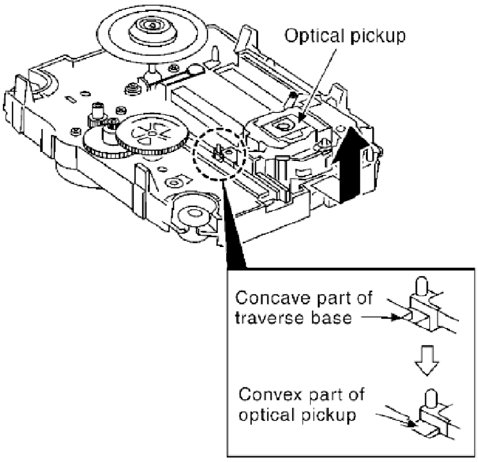
Step 9 Remove 1 screw.

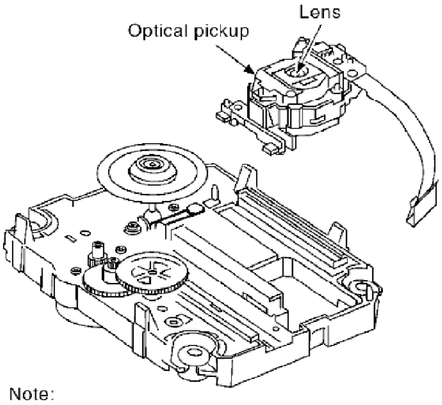


Step 10 Remove the catch of the drive rack, and take out the drive rack.


Drive rack
Catch

Step 11 Place the convex part of an optical pickup to the concave part of a traverse base, then take out the optical pickup.


Optical pickup
Concave part of
traverse base
Convex part of
optical pickup


Lens
Optical pickup

Note:
Do not touch the lens of the optical pickup

15.16. Procedure for removing CD loading mechanism

1. Turn off by pressing power SW in the body.

2. Unplug AC power cord after the indication of [GOOD-BYE], then disassemble the body.

3. Disassemble the body, and take out CD loading mechanism.

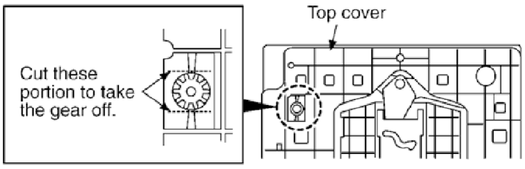
4. Perform disassembly according to the following procedure for disassembly.

15.17. CR16 mechanism disassembly procedure

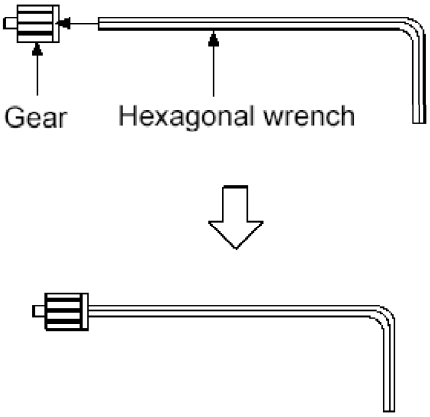
15.17.1. Gear for servicing information

- **This unit has a gear which used for checking items (open/close of disc tray, up/down operation of traverse unit by manually) when servicing. (For gear information, that is described on the items for disassembly procedures.)**
- **For preparation of gear (for servicing), perform the procedures as follows.**
- **In case of re-servicing the same set, the "gear for servicing" may be took off because it had been used. So, the "gear for servicing" must be stored.**

1. Remove the gear attached to top cover of CD loading mechanism.



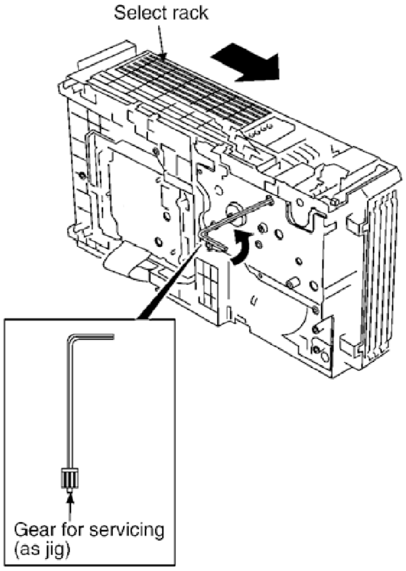
2. Insert the hexagonal wrench (2.5mm) into the gear.



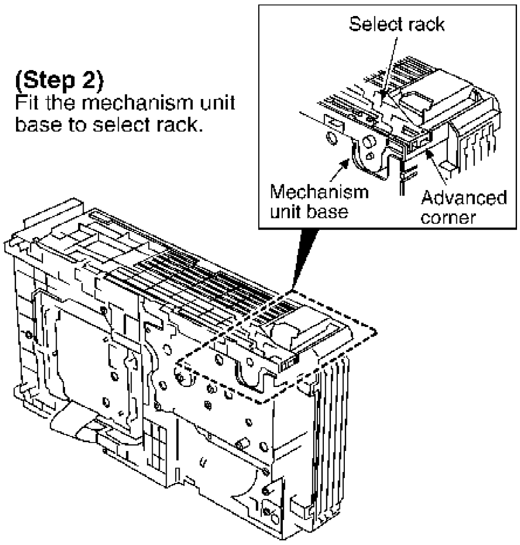
(Preparation of gear as jig is completed)

15.17.2. Replacement for the disc tray

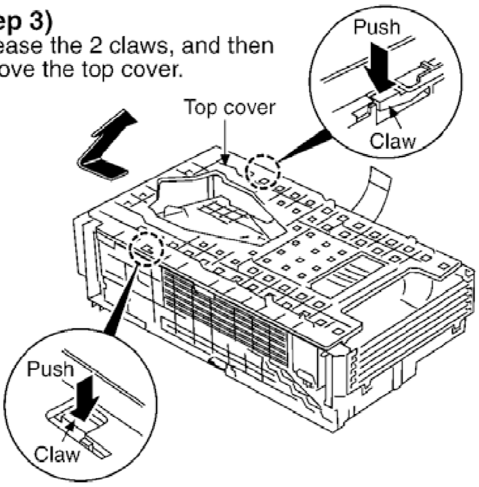
(Step 1)
Rotate the gear for servicing and move the select rack to advanced corner.


Select rack
Gear for servicing
(as jig)

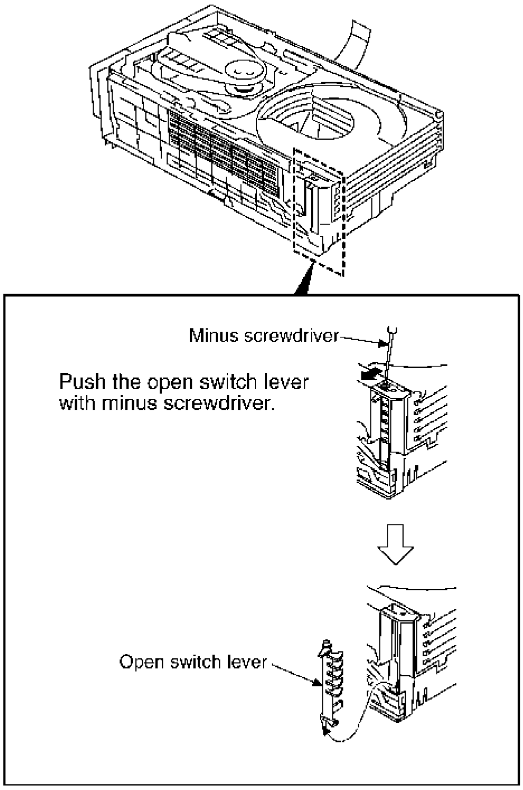
(Step 2)
Fit the mechanism unit base to select rack.


Select rack
Mechanism
unit base
Advanced
corner

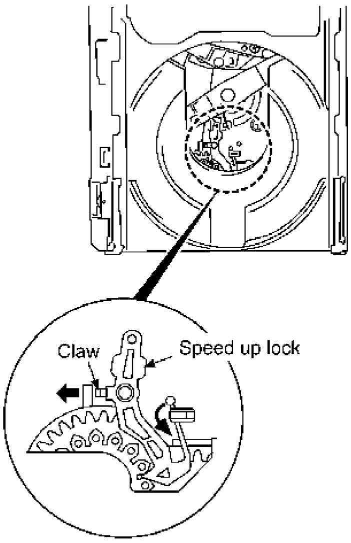
(Step 3)
Release the 2 claws, and then remove the top cover.

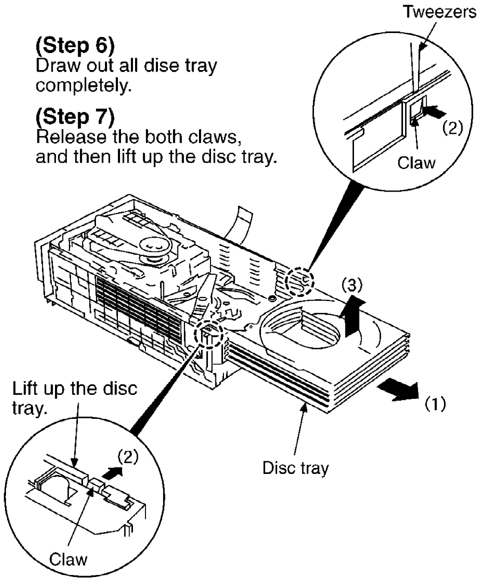

Push
Claw
Top cover
Push
Claw

(Step 4)
Remove the open switch lever.


Minus screwdriver
Push the open switch lever
with minus screwdriver.
Open switch lever

(Step 5)
Release the claw, and then remove the speed up lock.


Claw
Speed up lock



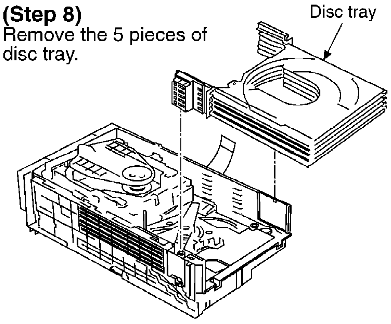
Insert the tweezers between the mechanism base and disc tray, and then lift up the disc tray.

(Step 6)
Draw out all dise tray completely.

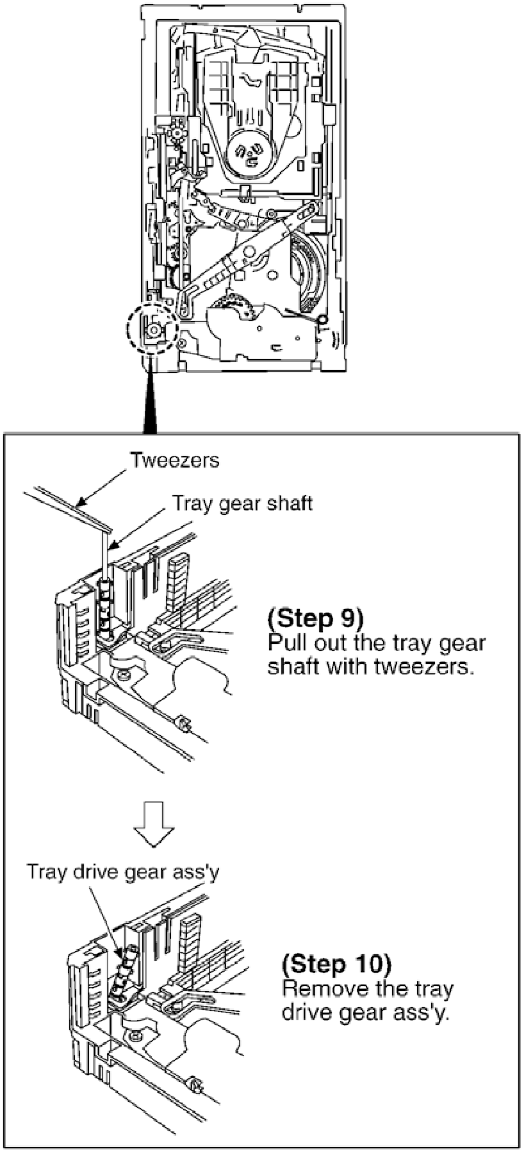
(Step 7)
Release the both claws, and then lift up the disc tray.

Lift up the disc tray.

Tweezers
(2)
Claw
(3)
(1)
Disc tray
(2)
Claw



(Step 8)
Remove the 5 pieces of disc tray.


Tweezers
Tray gear shaft
Tray drive gear ass'y

(Step 9)
Pull out the tray gear shaft with tweezers.

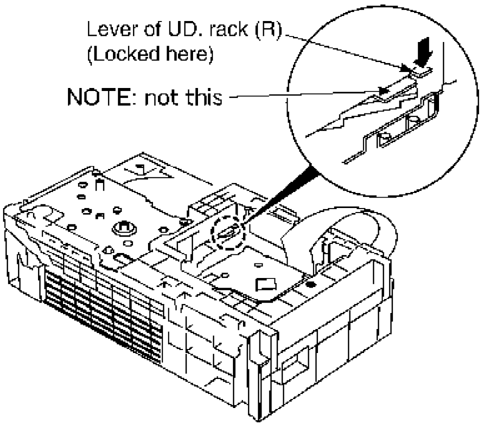
(Step 10)
Remove the tray drive gear ass'y.

15.17.3. Replacement for the traverse deck

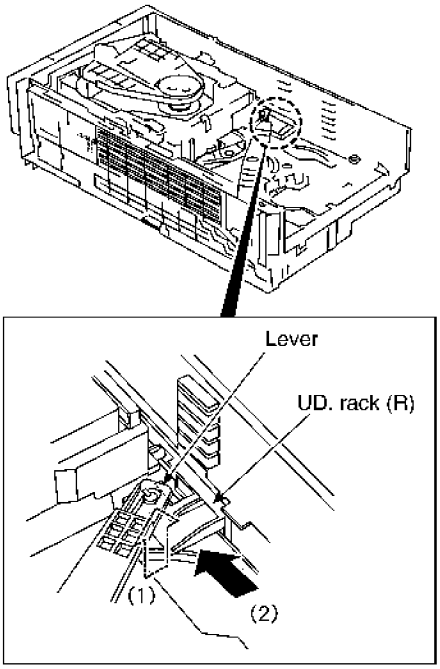
- Follow the (Step 1) - (Step 10) of item 15.17.2.

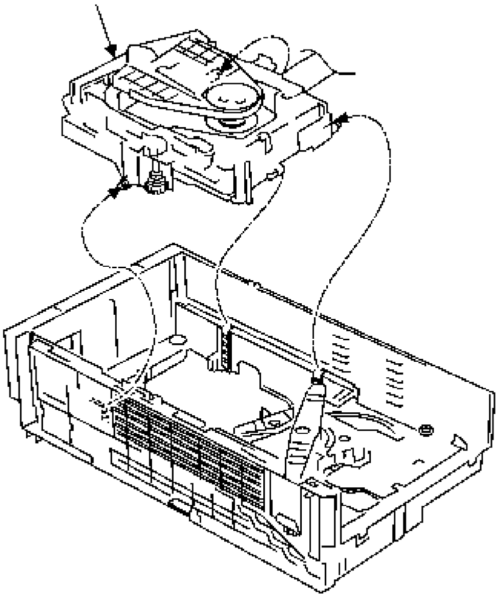
(Step 1)
Confirm the position for lever of UD. rack (R) to remove traverse unit.

(Step 2)
Turn the unit over. (Upside: P.C.B.)


Lever of UD. rack (R)
(Locked here)
NOTE: not this

(Step 3)
Turn the unit over again, slide UD. rack (R) while pushing up the lever from the bottom.


Lever
UD. rack (R)
(1)
(2)

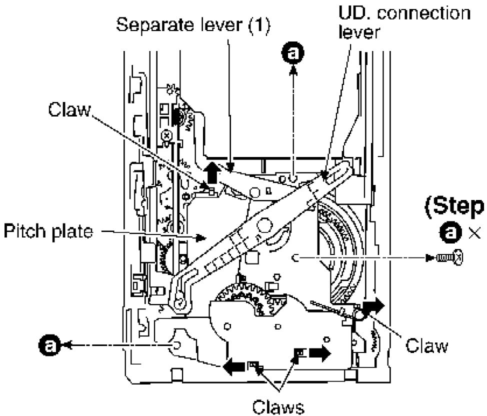


(Step 4)
Remove the traverse unit.

15.17.4. Disassembly for CD loading unit

- Follow the (Step 1) - (Step 10) of item 15.17.2.

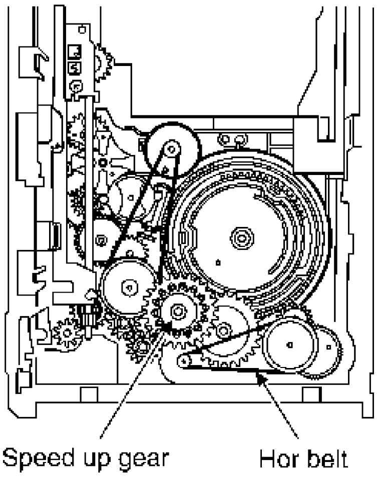
- Follow the (Step 1) - (Step 4) of item 15.17.3.


Separate lever (1)
UD. connection lever
a
Claw
Pitch plate
a
Claw
Claws

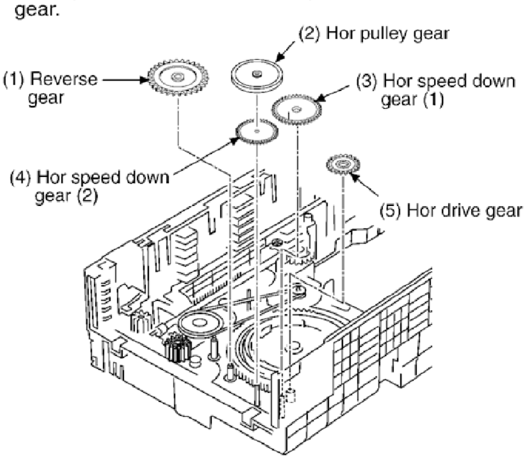
(Step 1)
a × 3

(Step 2)
Release the 4 claws, and then remove the pitch plate together with separate lever (1) and UD. connection lever.

(Step 3)
Remove the speed up gear and hor belt.

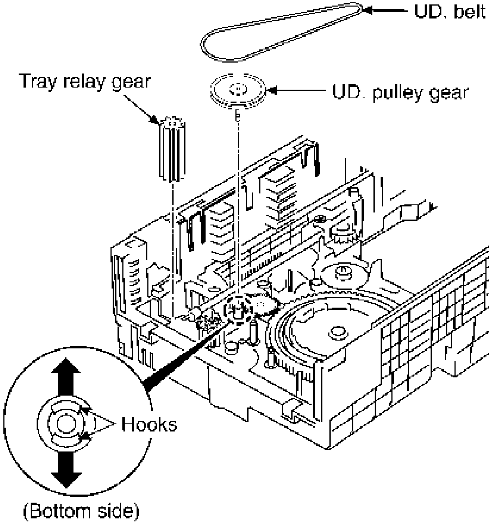

Speed up gear
Hor belt

(Step 4)
Remove the reverse gear, hor pulley gear, hor speed down gear (1), hor speed down gear (2) and hor drive gear.

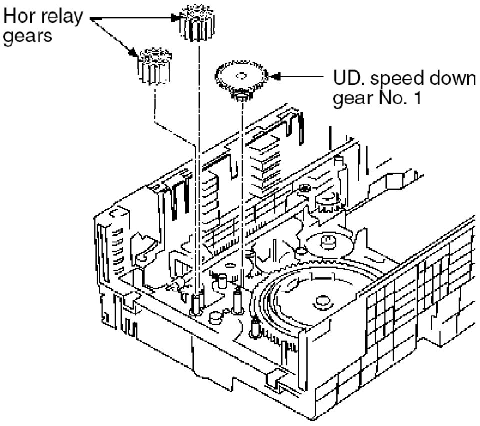

(2) Hor pulley gear
(1) Reverse gear
(3) Hor speed down gear (1)
(4) Hor speed down gear (2)
(5) Hor drive gear

(Step 5)
Remove the UD. belt and tray relay gear.

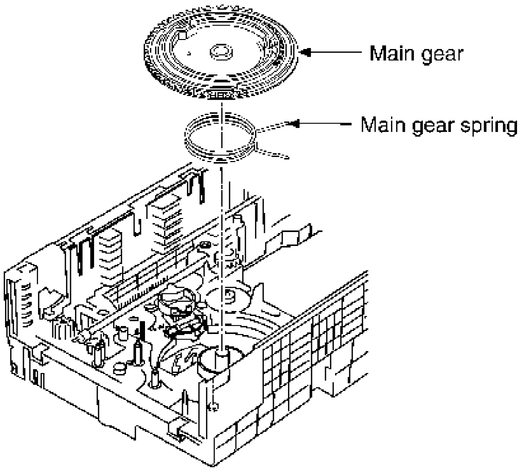
(Step 6)
Pull out the UD. pulley gear, loosen 2 hooks of the bottom of mechanism base.


UD. belt
Tray relay gear
UD. pulley gear
Hooks
(Bottom side)

(Step 7)
Remove the 2 hor relay gears and UD. speed down gear No. 1.

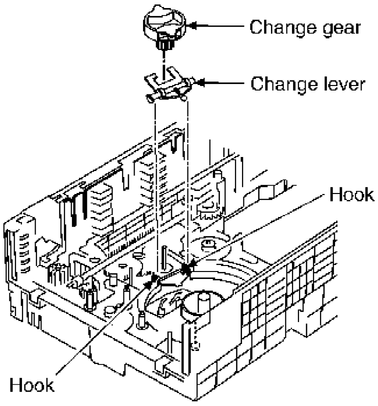

Hor relay gears
UD. speed down gear No. 1

(Step 8)
Remove the main gear and main gear spring.

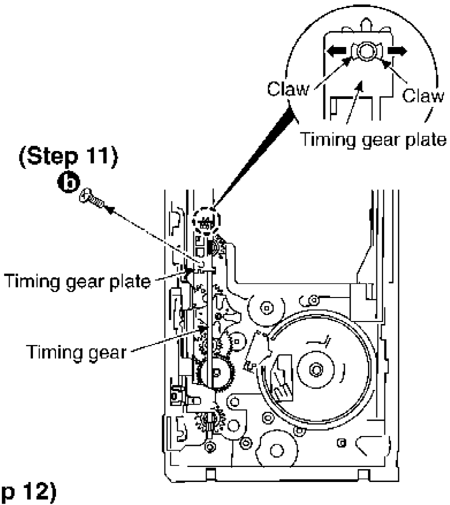

Main gear
Main gear spring

(Step 9)
Remove the change gear.

(Step 10)
Raise the change lever upright, and pull it out of hook.


Change gear
Change lever
Hook
Hook

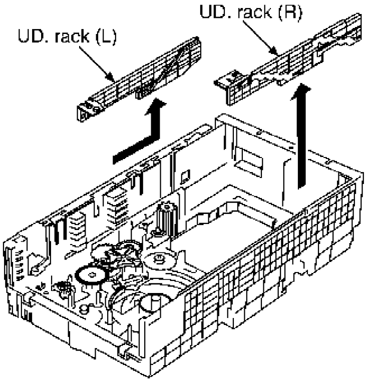
(Step 11)


Claw
Claw
Timing gear plate
b
Timing gear plate
Timing gear

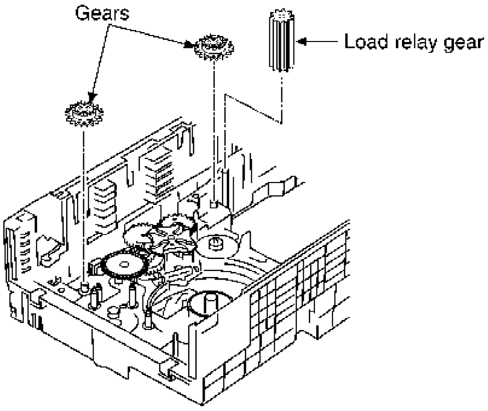
(Step 12)
Release the 2 claws, and then remove the timing gear and timing gear plate.

(Step 13)
Move the UD. rack (L) to backward, and then remove it.

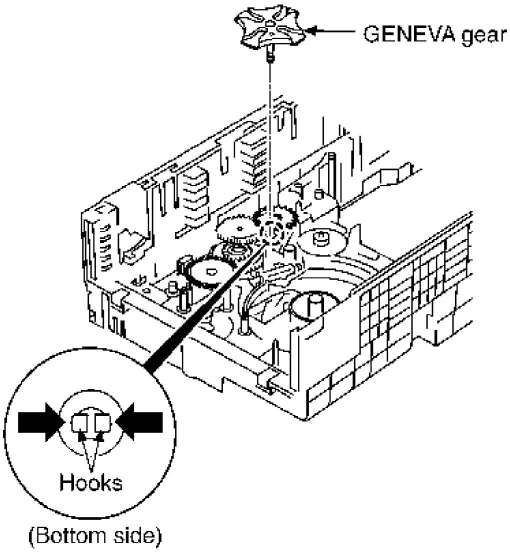
(Step 14)
Remove the UD. rack (R).


UD. rack (R)
UD. rack (L)

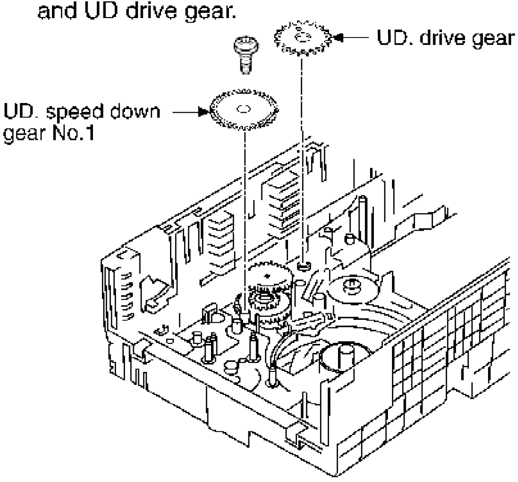
(Step 15)
Remove the 2 gears and load relay gear.


Gears
Load relay gear

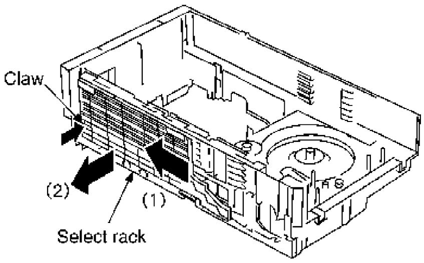
(Step 16)
Pull out the GENEVA gear, loosen 2 hooks of the bottom of mechanism base.

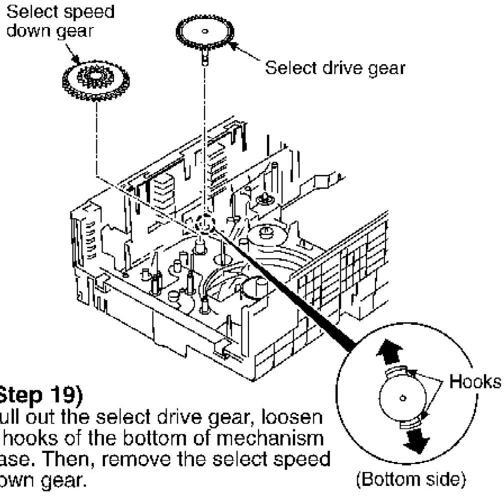

GENEVA gear
Hooks
(Bottom side)

(Step 17)
Remove the UD. speed down gear No.1 and UD drive gear.


UD. drive gear
UD. speed down gear No.1

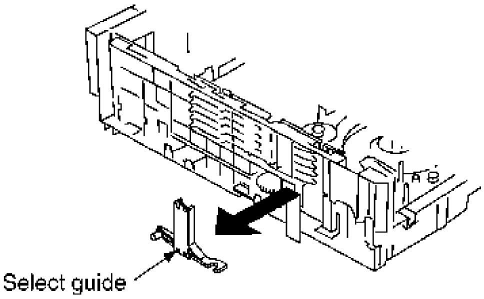
(Step 18)
Slide the select rack to the edge direction of the arrow (1). Push the claw and pull out to arrow (2) while sliding the select rack to the arrow (1).


Claw
(2)
(1)
Select rack

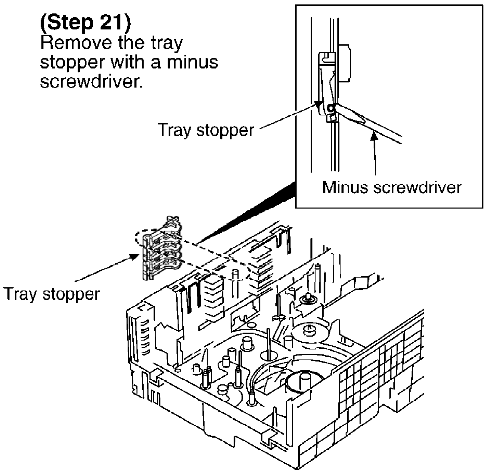

Select speed
down gear
Select drive gear
Hooks
(Bottom side)

(Step 19)
Pull out the select drive gear, loosen 2 hooks of the bottom of mechanism base. Then, remove the select speed down gear.

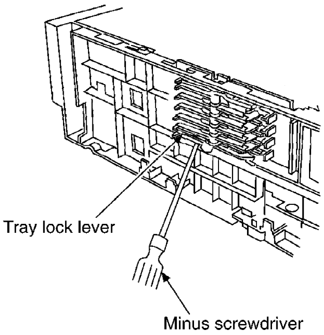
(Step 20)
Remove the select guide after sliding upside.


Select guide

(Step 21)
Remove the tray stopper with a minus screwdriver.


Tray stopper
Minus screwdriver
Tray stopper

(Step 22)
Remove the bottom of the tray lock lever with a minus screwdriver and others.

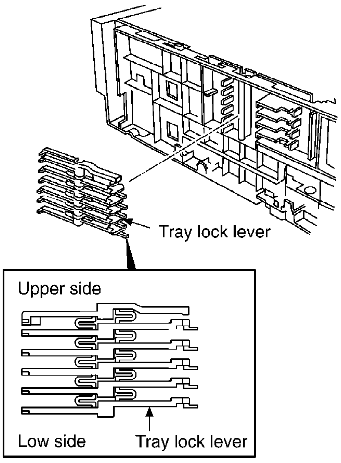

Tray lock lever
Minus screwdriver

15.18. CR16 mechanism assembly procedure

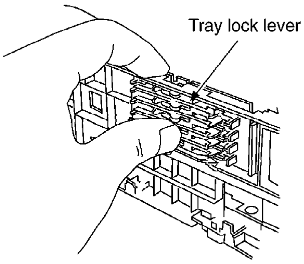
The following specified greases and/or oil must be applied when some specific parts are changed.

1. **Floil grease (VFK1298) : The floil grease must be applied to tray, tray (L) and tray (R).**
2. **Hanarl oil (VFK1700) : The hanarl oil must be applied to any parts with grease other than the said parts.**

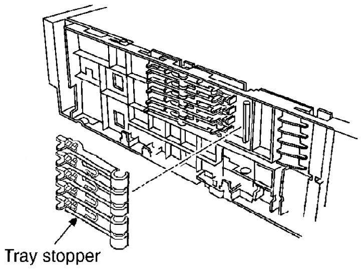
(Step 1)
Install the tray lock lever to mechanism base.


Tray lock lever
Upper side
Low side
Tray lock lever

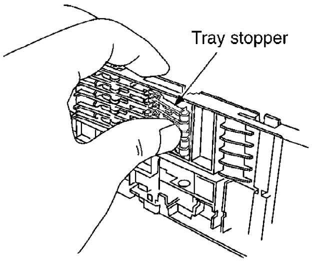
(Step 2)
Push the tray lock lever with a hand and install it.


Tray lock lever

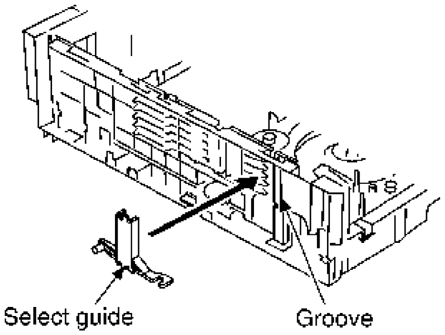
(Step 3)
Install the tray stopper to mechanism bese.


Tray stopper

(Step 4)
Push the tray stopper with a hand and install it.

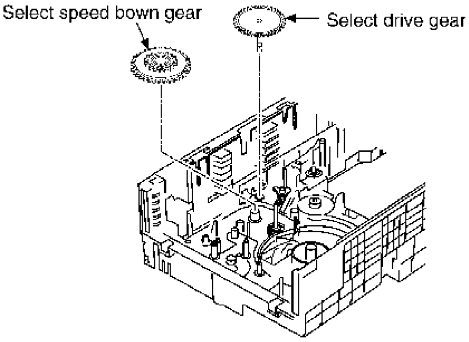

Tray stopper

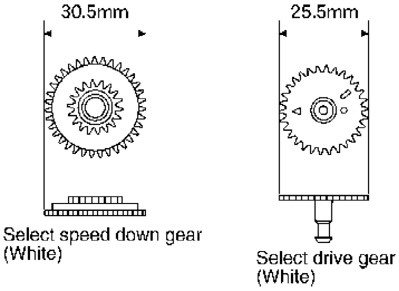
(Step 5)
Insert the select guide with a groove of the mechanism base and move it below.


Select guide
Groove

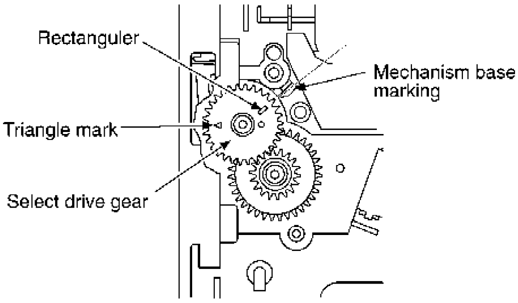
(Step 6)
Install the select speed down gear to mechanism base.

(Step 7)
Install the select drive gear to mechanism base.


Select speed bown gear
Select drive gear


30.5mm
25.5mm
Select speed down gear
(White)
Select drive gear
(White)

(Step 8)
Fit a mechanism base marking to the rectanguler mark of gear so that the triangle mark can indicate the sideward direction.

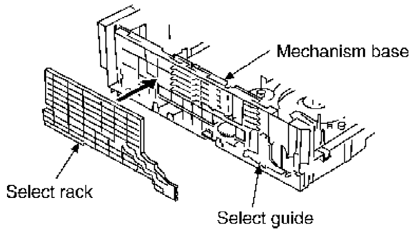

Rectanguler
Mechanism base marking
Triangle mark
Select drive gear

(Step 9)

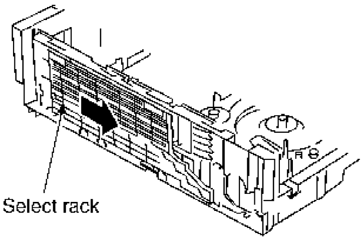
Install the select rack to mechanism base.

Checking items before the installation.
1. Check select guide is completely in lowest position.
2. Check its phase of select drive gear is correct position.(Rectangle/Triangular mark)(Refer to Step 8)

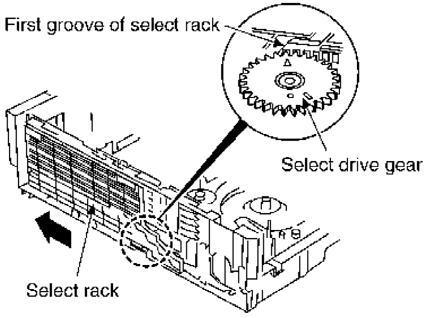
1. Put a select rack down with it fitted to its circumference of mechanism base.


Mechanism base
Select rack
Select guide

2. Slide the select rack with it's pushing to a little right direction and install it.

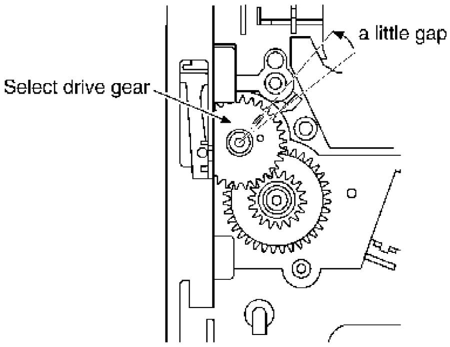

Select rack

(Figure to see from the inside)

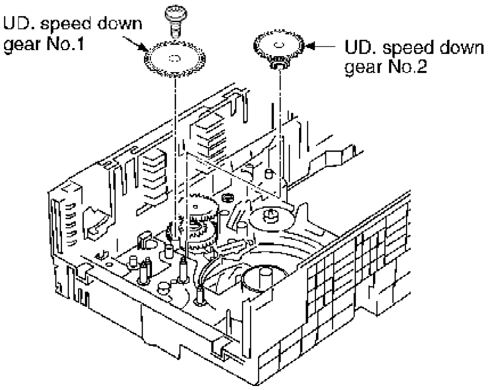

First groove of select rack
Select drive gear
Select rack

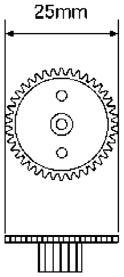
3. Check whether its end of triangular mark is in first groove of select rack, after fixing.
4. After insertion of select rack, continue the following work until the indication that it gose forward. And, all the while it must be checked that select rack is in the extreme end.

5. After insertion the select rack, the marking of select gear has a little gap when it is in the extreme end.

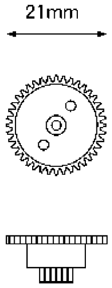

a little gap
Select drive gear

(Step 10)
Install the UD. speed down gear No.1 and UD. speed down gear No.2.


UD. speed down gear No.1
UD. speed down gear No.2

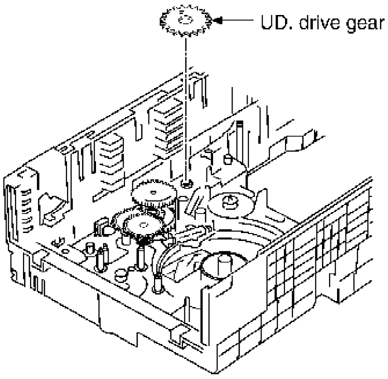


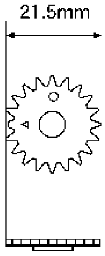
UD. speed down gear No.1 (White)



UD. speed down gear No.2 (Semi-transparent)

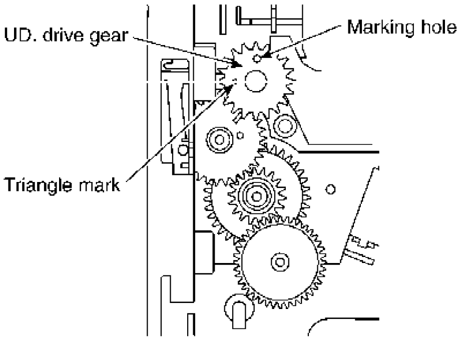
(Step 11)
Install the UD. drive gear to mechanism base.


UD. drive gear

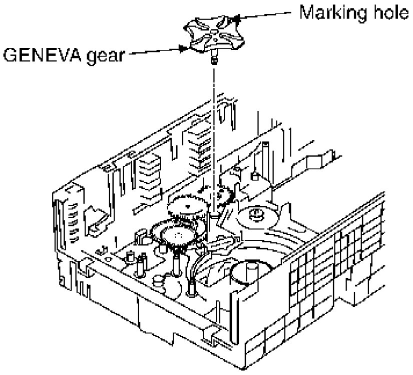


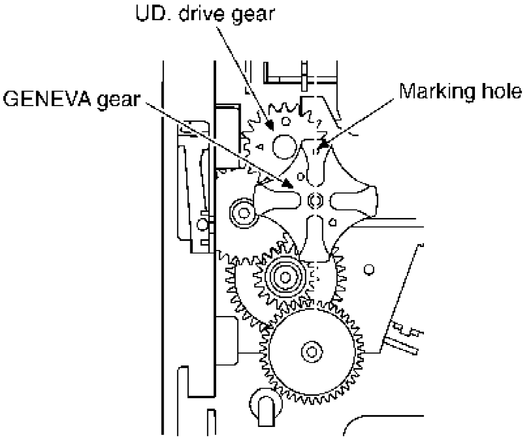
UD drive gear (White)

(Step 12)
Insert the UD. drive gear with its marking hole upward.
At that time, its triangle mark should be sideways.

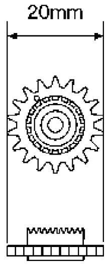

UD. drive gear
Marking hole
Triangle mark

(Step 13)
Insert the GENEVA gear with its marking hole upward, and fix it by 2 hooks on bottom of mechanism base.
At that time, UD. drive gear mustn't be moved.

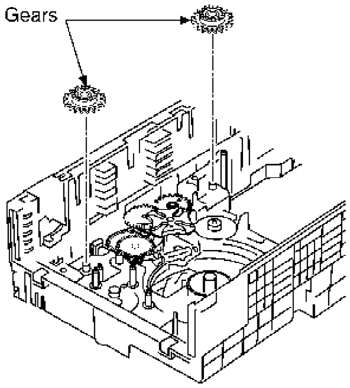

Marking hole
GENEVA gear


UD. drive gear
GENEVA gear
Marking hole

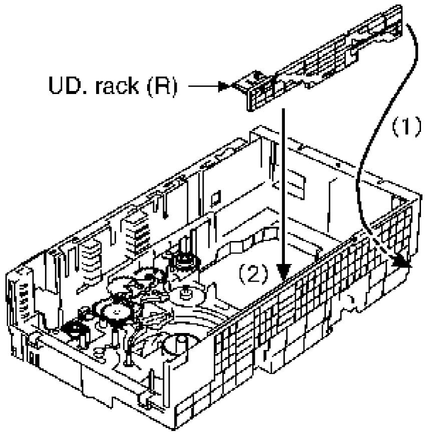
(Step 14)
Install the 2 gears to mechanism base.



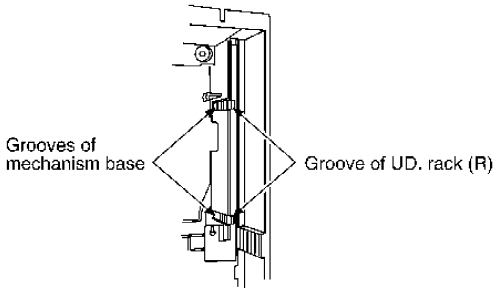
Gear (White)

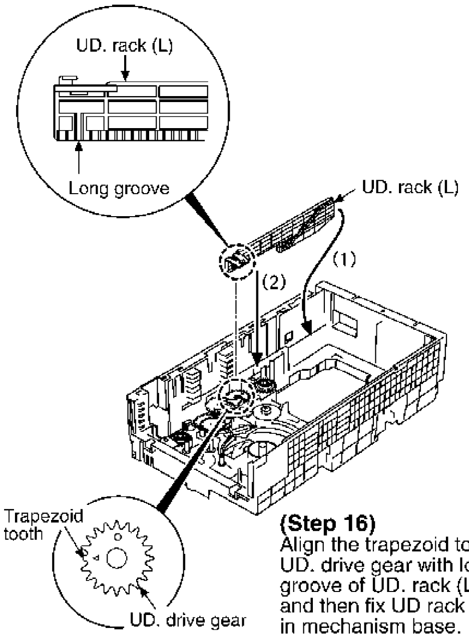


(Step 15)
Insert the UD. rack (R) to (2) from arrow (1).



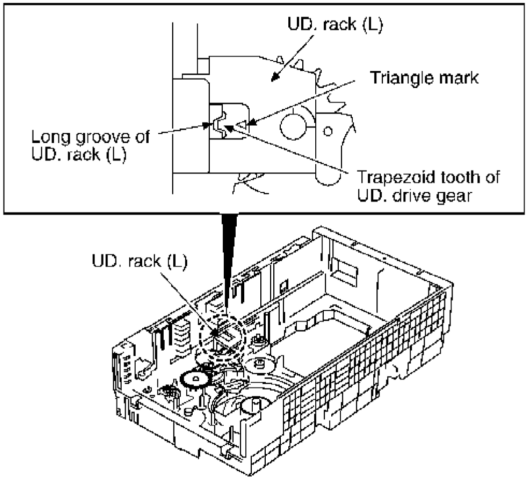
NOTE:
Put a groove of the mechanism base to the UD. rack (R).


Grooves of mechanism base
Groove of UD. rack (R)

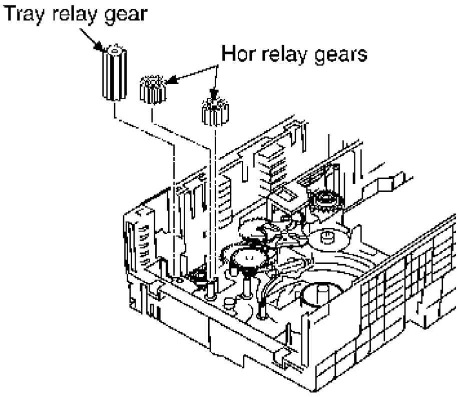

UD. rack (L)
Long groove
UD. rack (L)
(1)
(2)
Trapezoid tooth
UD. drive gear

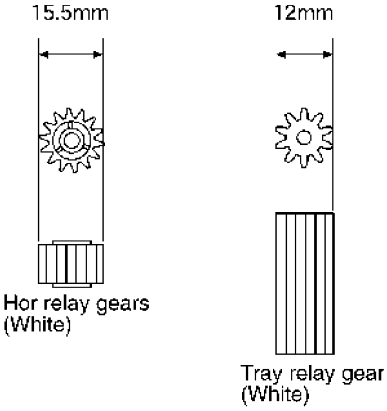
(Step 16)
Align the trapezoid tooth of UD. drive gear with long groove of UD. rack (L), and then fix UD rack (L) in mechanism base.

(Figure to see from the upper side)

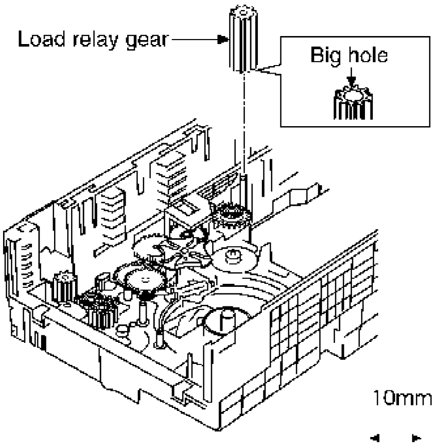

UD. rack (L)
Triangle mark
Long groove of UD. rack (L)
Trapezoid tooth of UD. drive gear
UD. rack (L)

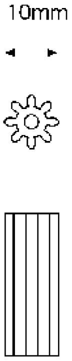
(Step 17)
Install the tray relay gear and 2 hor relay gears.


Tray relay gear
Hor relay gears


15.5mm
12mm
Hor relay gears
(White)
Tray relay gear
(White)

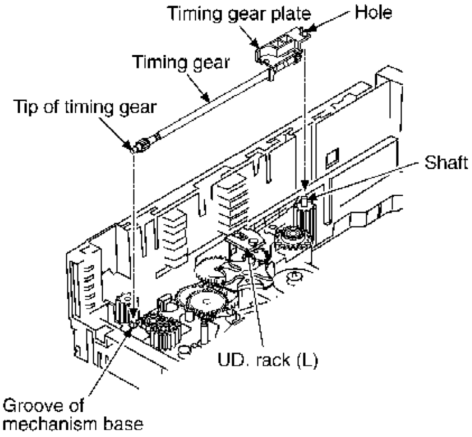
(Step 18)
Install the load relay gear to mechanism base.
(Fit load relay gear with its big hole downward.)


Load relay gear
Big hole

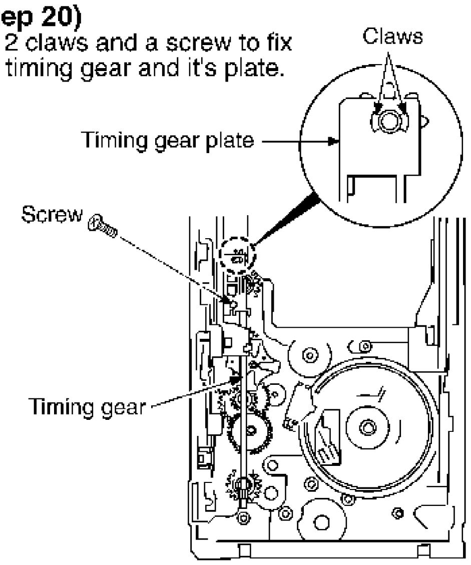


Load relay gear
(White)

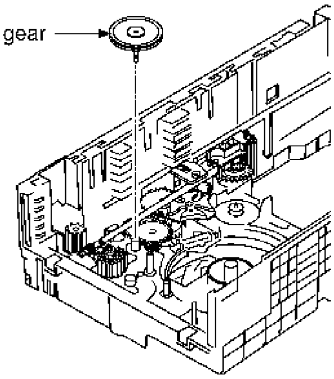
(Step 19)
Put on the top of the timing gear, then, install the timing gear and it's plate.
At that time avoid the UD. rack (L).

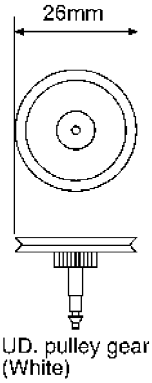

Timing gear plate
Hole
Timing gear
Tip of timing gear
Shaft
UD. rack (L)
Groove of
mechanism base

(Step 20)
Fix 2 claws and a screw to fix the timing gear and it's plate.


Claws
Timing gear plate
Screw
Timing gear

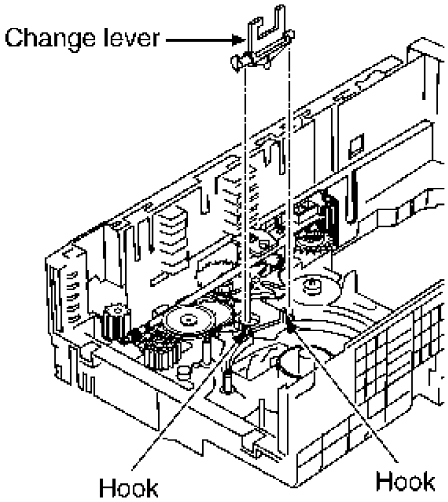
(Step 21)
Install the UD. pulley gear to mechanism base.


UD. pulley gear


26mm
UD. pulley gear
(White)

(Step 22)

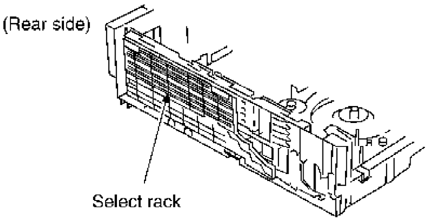
Insert the change lever with it upright.

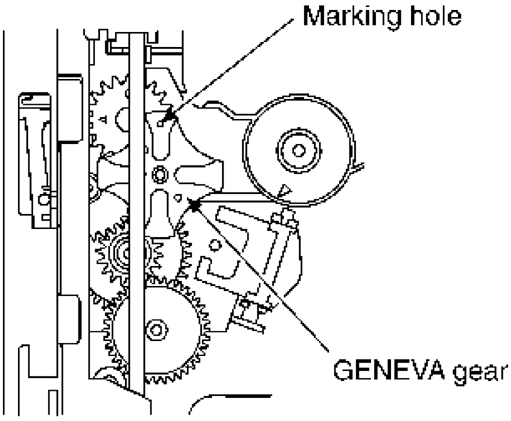

Change lever
Hook
Hook

(Step 23)

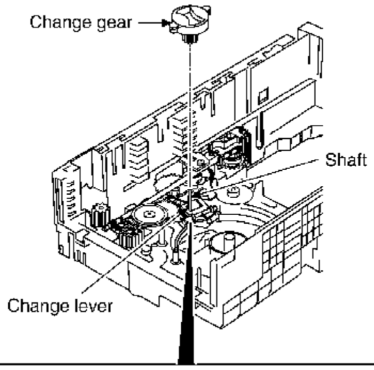
Be sure the notice of bellow before fixing the change gear.

1. Select track should be in the rear of mechanism base.
2. Its hole of GENEVA gear should turn up.

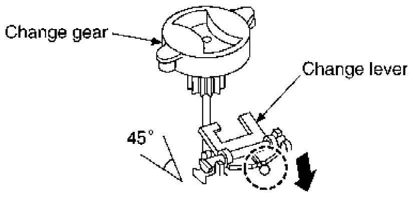

(Rear side)
Select rack


Marking hole
GENEVA gear

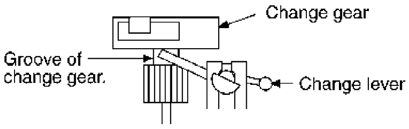
(Step 24)
Install the change gear as insert the change lever into the groove of change gear.


Change gear
Shaft
Change lever

1. Pushing the ◯ part and pull up the change lever 45°.

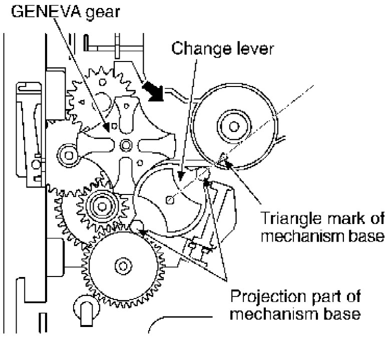

Change gear
Change lever
45°

2. Insert the change lever into the groove of change gear.

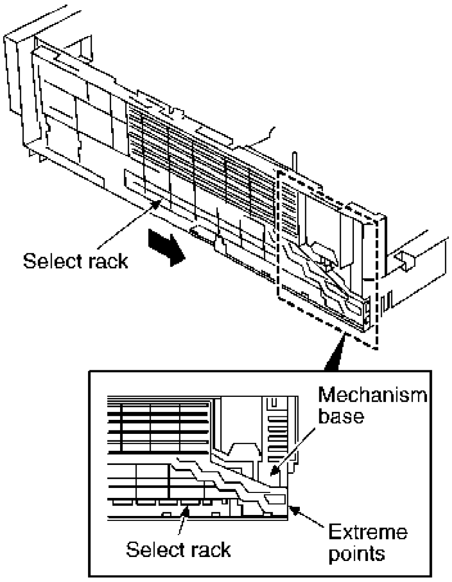

Change gear
Groove of change gear.
Change lever

(Step 25)
Put change gear down with projection part of change gear fitted to triangle mark of mechanism base, when fixing change gear.
At that time, check change gear is inserted into the groove of change lever.

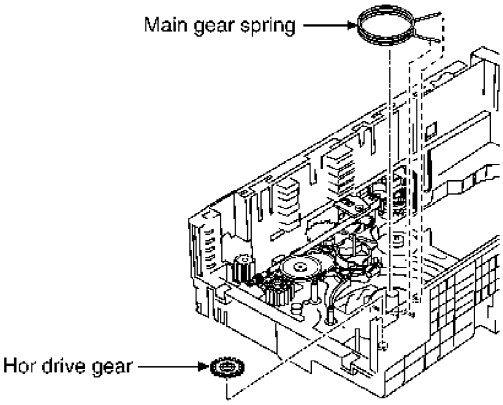
(Step 26)
Lastly, turn GENEVA gear clockwise slightly and drop change gear to mechanism base.

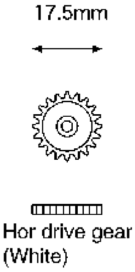

GENEVA gear
Change lever
Triangle mark of mechanism base
Projection part of mechanism base

(Step 27)
Move the select rack smoothly forward manually until 2 extreme points of both select track and mechanism base.

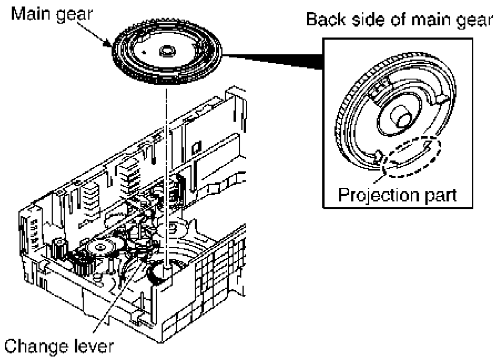

Select rack
Mechanism base
Select rack
Extreme points

(Step 28)
Install the main gear spring and hor drive gear.

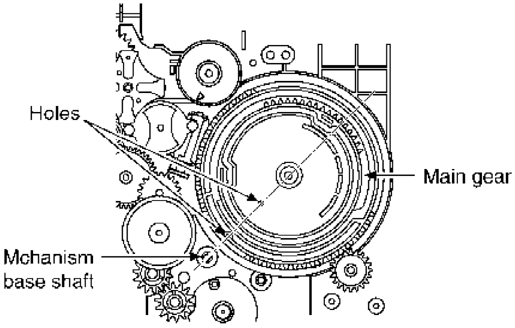

Main gear spring
Hor drive gear


17.5mm
Hor drive gear
(White)

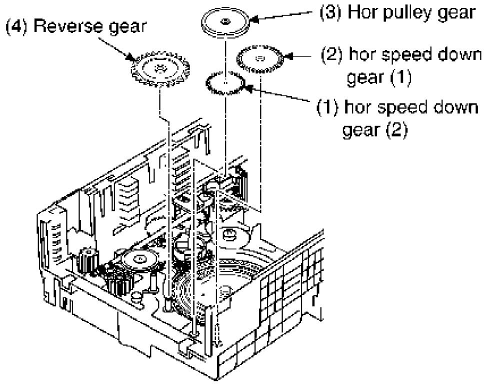
(Step 29)
Don't bring change lever into touch to projection part of main gear, when fixing main gear in mechanism base.

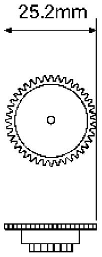

Main gear
Back side of main gear
Projection part
Change lever

(Step 30)
After that, turn main gear so that 2 holes inside main gear would be in alignment with mechanism base.

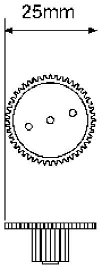

Holes
Main gear
Mchanism
base shaft

(Step 31)
Install the hor speed down gear (2), hor speed down gear (1), hor pullry gear and reverse gear.

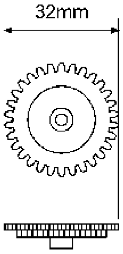

(4) Reverse gear
(3) Hor pulley gear
(2) hor speed down gear (1)
(1) hor speed down gear (2)



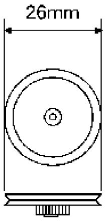
Hor speed down gear (2) (White)



Hor speed down gear (1) (Semi-transparent)



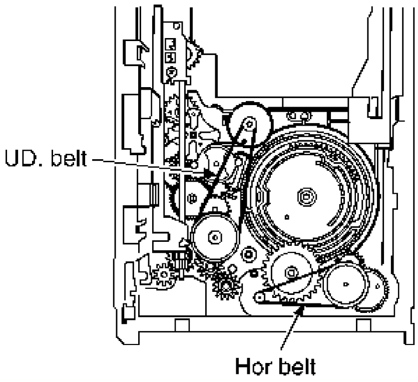
Reverse gear (White)



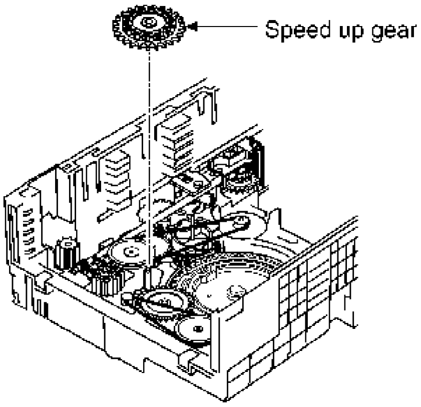
Hor pulley gear (White)

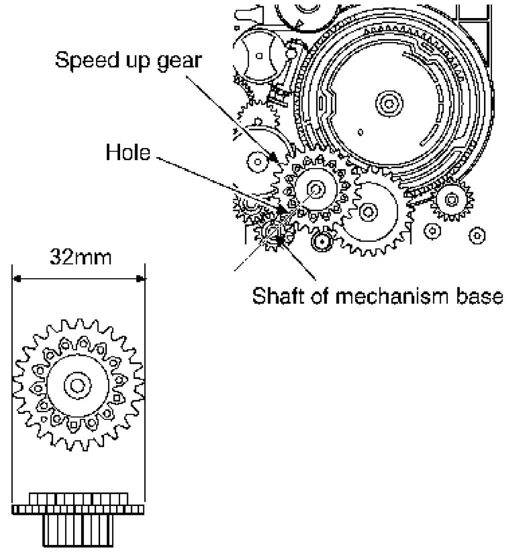
(Step 32)
Install the UD. belt and hor belt.

NOTE:
1. Take care not apply the grease to the belt.
2. Install the belt without twist.


UD. belt
Hor belt

(Step 33)
Install speed up gear to its shaft of mechanism base with 2 fitting.

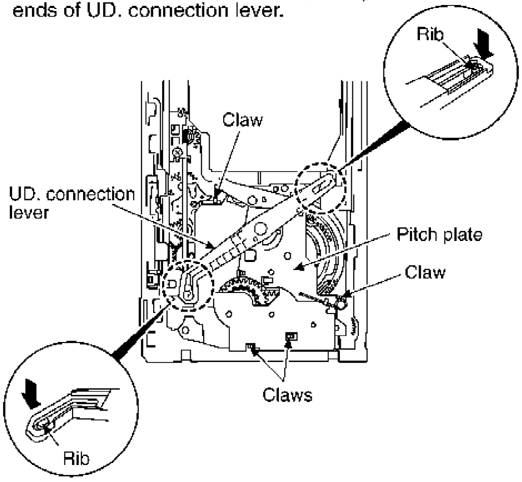

Speed up gear


Speed up gear
Hole
Shaft of mechanism base
32mm

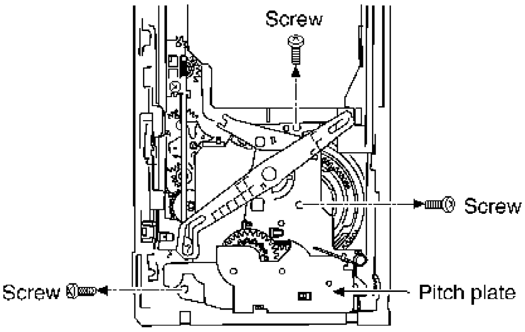
Speed up gear
(White)

(Step 34)
Install the pitch plate. (The 4 claws should be latched.)

(Step 35)
Fix 2 ribs of UD. rack (L) and (R) into groove of both ends of UD. connection lever.

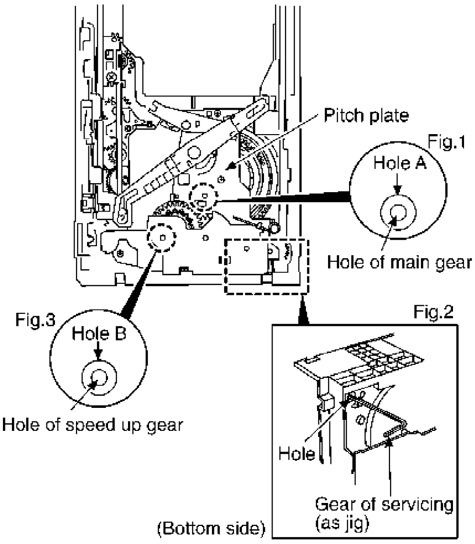

Rib
Claw
UD. connection lever
Pitch plate
Claw
Claws
Rib

(Step 36)
Fixed it by three screws further.

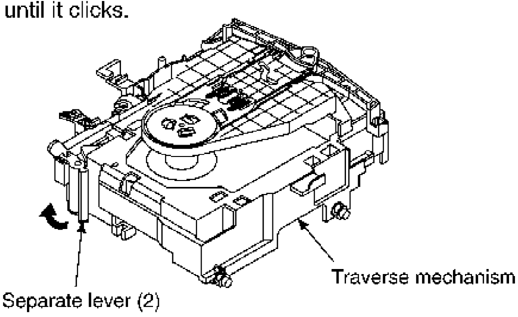

Screw
Screw
Screw
Pitch plate

(Step 37)
Be sure the notice of below before fixing the traverse mechanism.

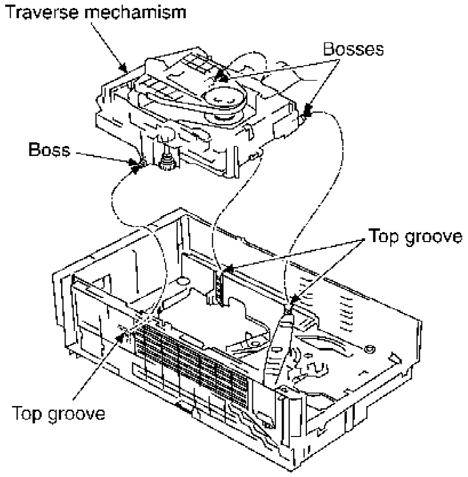
1. Check that 2 holes of both pitch plate and main gear is fitted. (Refer to Fig.1)
   If it's not fitted, put the gear for servicing in the hole of the bottom side and adjust it. (Refer to Fig.2)
2. Check that 2 holed of both pitch plate and speed up gear is futted. (Refer Fig.3)
   If it's not fitted turn the speed up gear to adjust it.


Pitch plate
Fig.1
Hole A
Hole of main gear
Fig.3
Hole B
Hole of speed up gear
Fig.2
Hole
Gear of servicing (as jig)
(Bottom side)

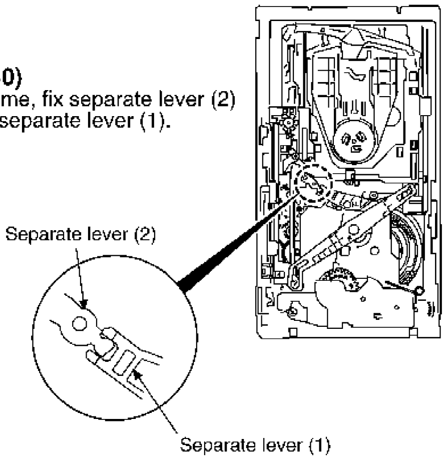
(Step 38)
Turn the separate lever (2) slowly toward left side until it clicks.


Separate lever (2)
Traverse mechanism

(Step 39)
Fix the left boss into the top groove of the UD. rack (L) and fix 2 bosses into the groove of the UD. rack (R).

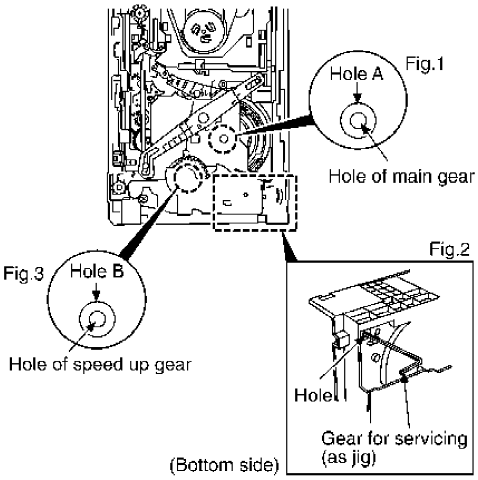

Traverse mechamism
Bosses
Boss
Top groove
Top groove

(Step 40)
At that time, fix separate lever (2) into the separate lever (1).

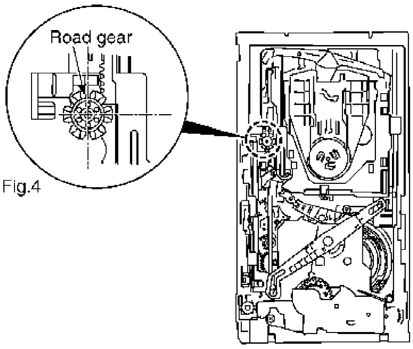

Separate lever (2)
Separate lever (1)

(Step 41)
After the traverse mechanism fixed,
confirm the phase in order below.

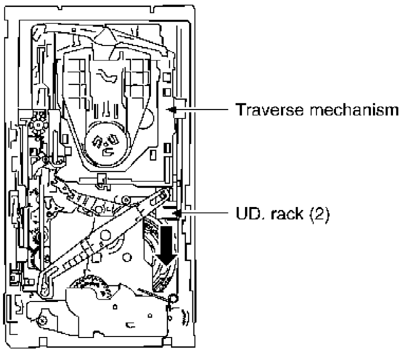
1. Check that 2 holes of both pitch plate and main gear is fitted. (Refer to Fig.1)
   If it's not fitted, put the gear for servicing in the hole of the bottom side and adjust it. (Refer to Fig.2)
2. Check that 2 holed of both pitch plate and speed up gear is futted. (Refer Fig.3)
   If it's not fitted turn the speed up gear to adjust it.


Hole A
Fig.1
Hole of main gear
Fig.2
Fig.3
Hole B
Hole of speed up gear
Hole
Gear for servicing
(as jig)
(Bottom side)

3. In the cog of road gear, the groove with it's cutting halfway set side ward. (Refer to Fig.4)
   Remove the traverse mechanism again when it is not set side ward and install it after adjustment of inserting position.
   NOTE: By this time, do not adjust to rotate the road gear.

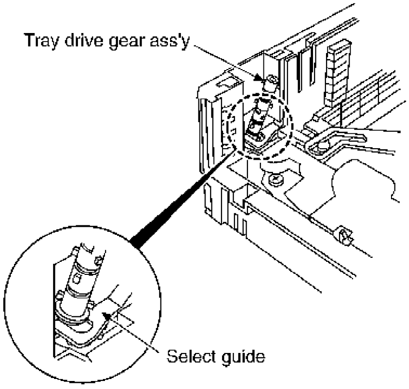

Road gear
Fig.4

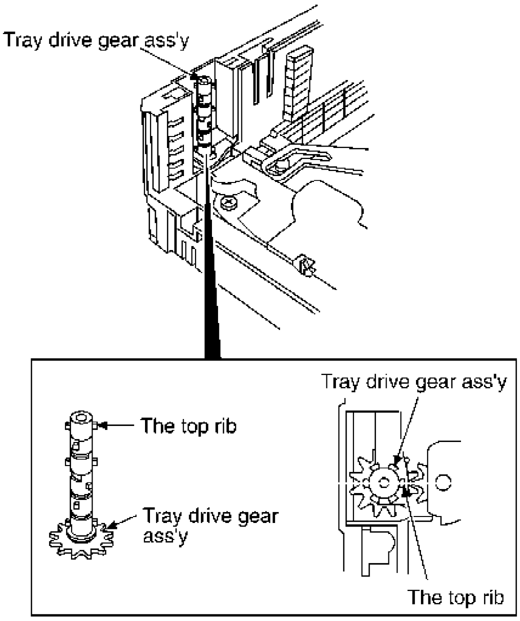
(Step 42)
After insertion of traverse mechanism, pull the UD. rack (R) on this side that each phase is "OK" and then lock the traverse mechanism.


Traverse mechanism
UD. rack (2)

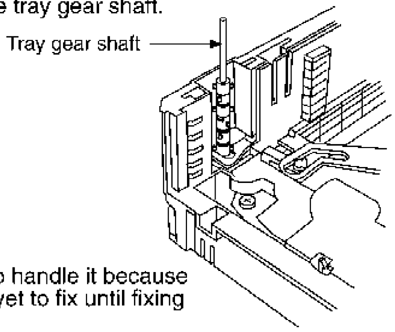
(Step 43)
Install the tray drive gear to select guide.
(Install the top rib of the tray drive gear with side ward.)

NOTE:
Confirm the each phase surely before install the tray drive gear. (Refer to Step 41).


Tray drive gear ass'y
Select guide

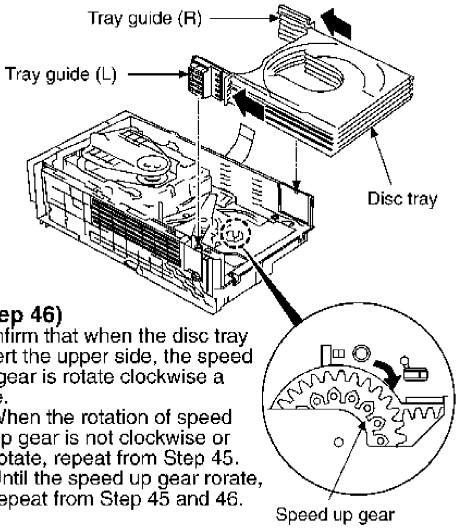

Tray drive gear ass'y
Tray drive gear ass'y
The top rib
Tray drive gear ass'y
The top rib

(Step 44)
Insert the tray gear shaft.


Tray gear shaft

NOTE:
Be careful to handle it because the shaft is yet to fix until fixing top cover.

(Step 45)
Move the tray guide (R) and (L) to direction of arrow that fixed (stopped) it and install 5 pieces of disc tray.

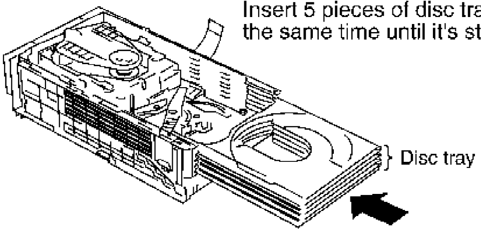

Tray guide (R)
Tray guide (L)
Disc tray
Speed up gear

(Step 46)
Confirm that when the disc tray insert the upper side, the speed up gear is rotate clockwise a little.

- When the rotation of speed up gear is not clockwise or rotate, repeat from Step 45.
- Until the speed up gear rorate, repeat from Step 45 and 46.

NOTE:
While keeping all postion, install 5 pieces of disc tray.

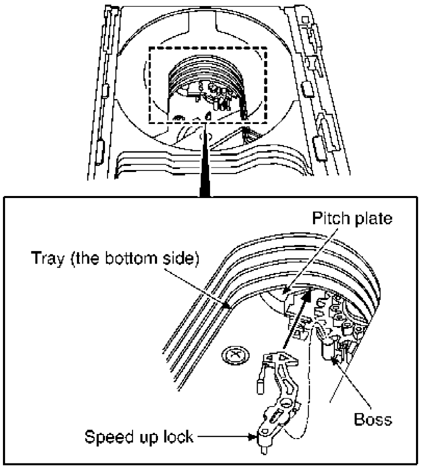
(Step 47)
Insert 5 pieces of disc tray at the same time until it's stop.



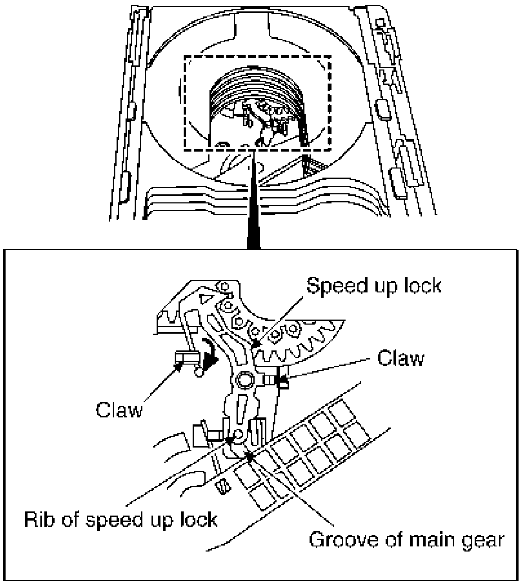
(Step 48)
Turn the traverse side 180°.

(Step 49)
While install the tip of speed up lock beween tray (No.1) of the most lower side and pitch plate for the time being.
(Do not to insert the cog of speed up gear), insert it to boss.

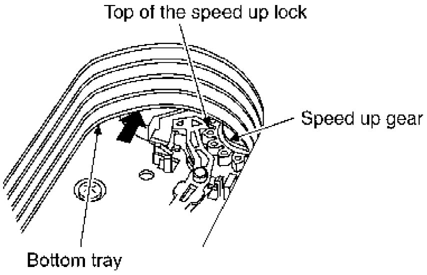
NOTE:
At that time, do not move the tray.
(See the tray the most front side)


Pitch plate
Tray (the bottom side)
Boss
Speed up lock

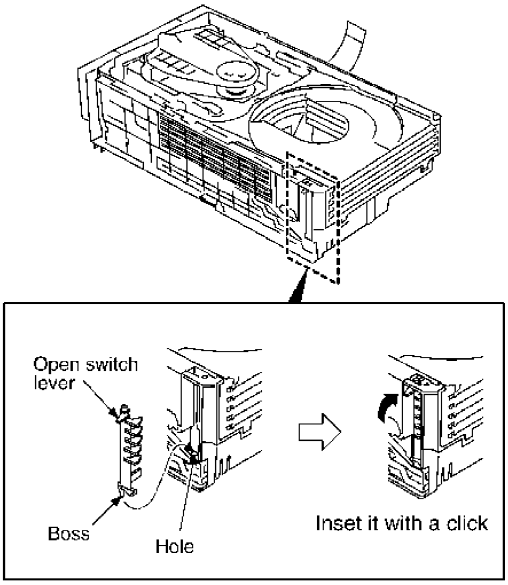
(Step 50)
Insert the rib of speed up lock into a groove of main gear, and lock it with 2 claws.


Speed up lock
Claw
Claw
Rib of speed up lock
Groove of main gear

(Step 51)
Move the bottom tray to the arrow while pushing the top of the speed up gear. And insert it to a cog of the speed up gear.

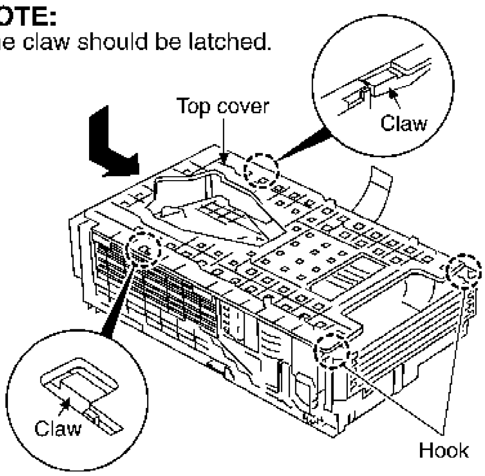

Top of the speed up lock
Speed up gear
Bottom tray

(Step 52)
Install the open switch lever.
(Put the boss into the hole of the mechanism base.)


Open switch lever
Boss
Hole
Inset it with a click

(Step 53)
Install the top cover.
Fix it into hooks and slide direction to the arrow.

NOTE:
The claw should be latched.


Top cover
Claw
Claw
Hook

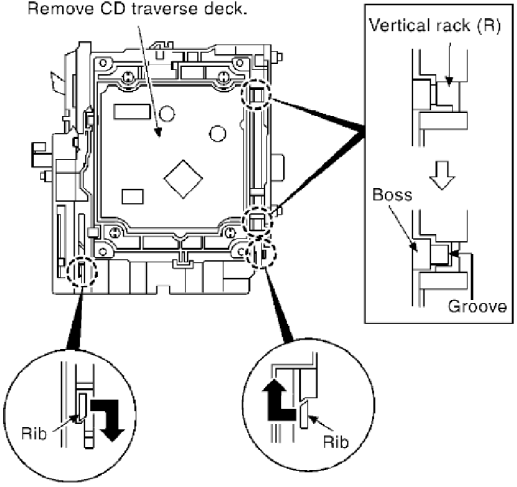
15.19. Disassembly for Traverse Unit

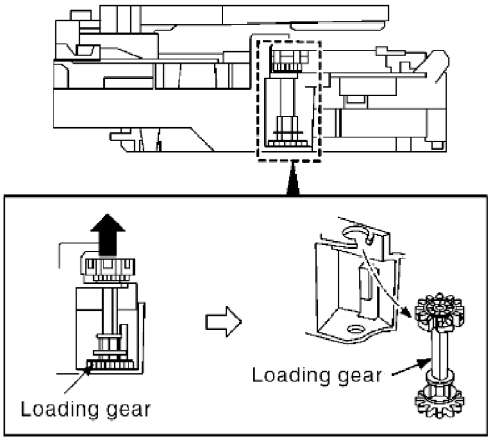
- Follow the (Step 1) - (Step 10) of item 15.17.2

- Follow the (Step 1) - (Step 4) of item 15.17.3

Step 1
Shift ribs of both side to the arrow direction.
(A vertical rack (R) slides and groove opens)

Step 2
Remove CD traverse deck.

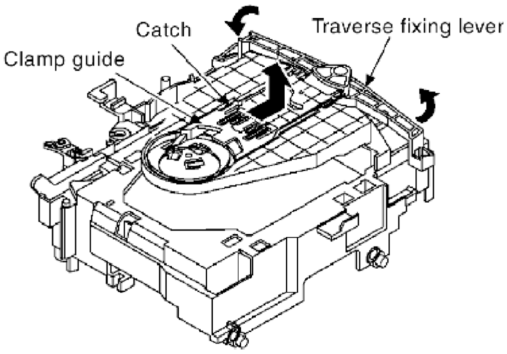

Vertical rack (R)
Boss
Groove
Rib
Rib

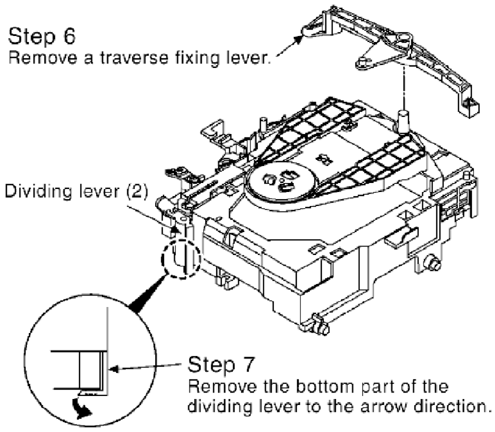

Loading gear
Loading gear

Step 3
Lift a loading gear slightly and pull out.

Step 4
Fixing lever to the arrow direction, rotate a traverse.

Step 5
Remove catch and take out a clamp guide.


Catch
Traverse fixing lever
Clamp guide

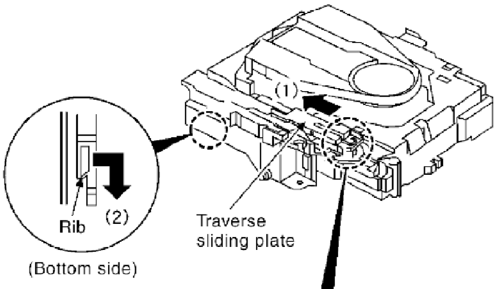


Step 6
Remove a traverse fixing lever.

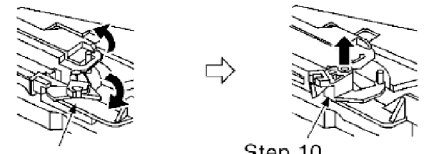
Dividing lever (2)

Step 7
Remove the bottom part of the dividing lever to the arrow direction.

Step 8
Slide a traverse sliding plate to the arrow direction (1), and shift a rib to the arrow direction (2).

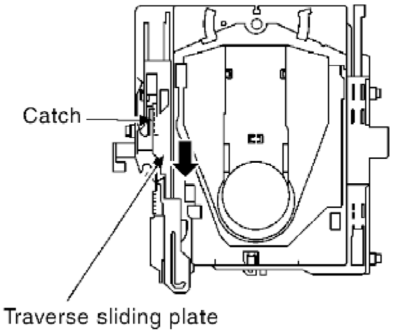

(1)
Rib
(2)
(Bottom side)
Traverse sliding plate

Step 9
Shifting a traverse sliding plate slightly and rotate a tray change lever.


Tray change lever

Step 10
Remove a tray change lever.

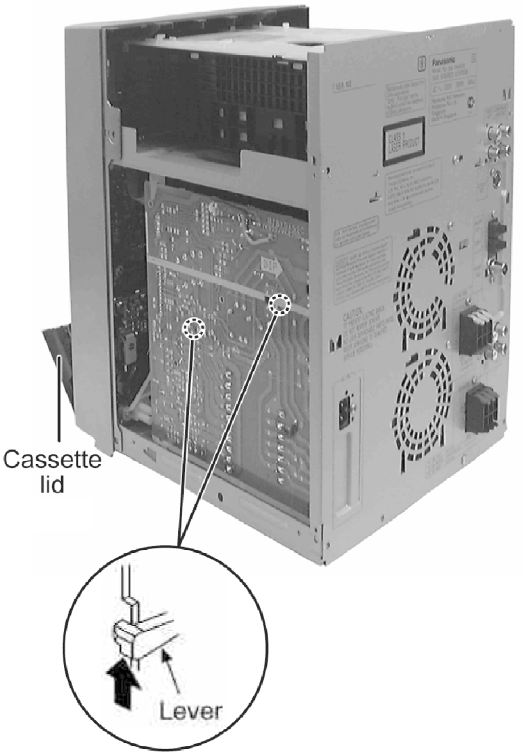
Step 11
Holding the catch down, slide a traverse sliding plate to the arrow direction and remove it.


Catch
Traverse sliding plate

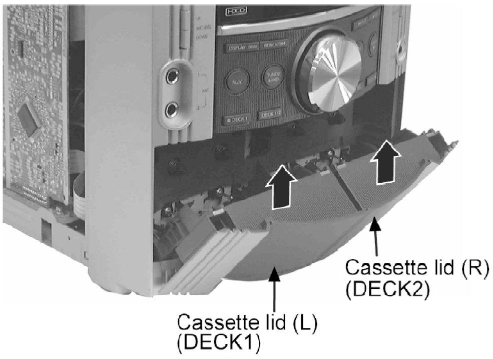
15.20. Replacement for cassette lid

- Follow the (Step 1) - (Step 2) of Item 15.3 - Disassembly of Top Cabinet

Step 1 Lift up the lever upward, open the cassette deck. (For DECK1 and DECK2)


Cassette lid
Lever

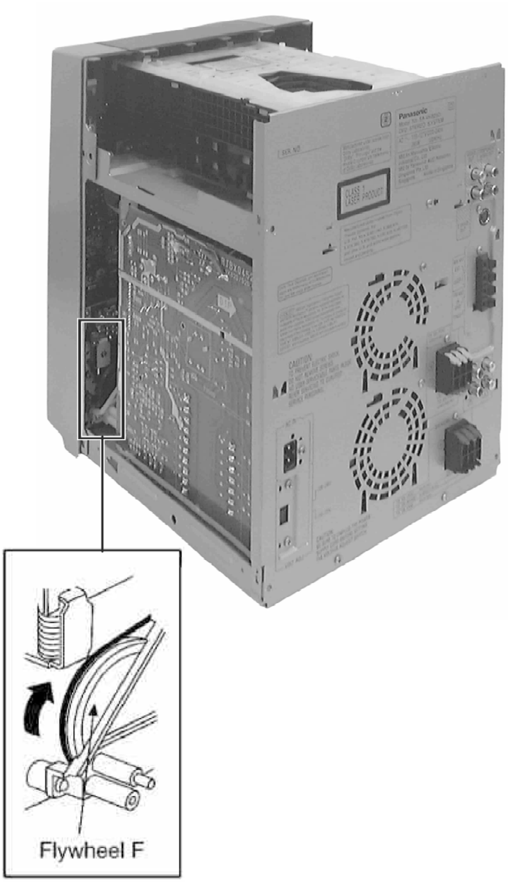
Step 2 Push up the cassette lid (L/R) in the direction of arrow. (For DECK1 and DECK2).


Cassette lid (R)
(DECK2)
Cassette lid (L)
(DECK1)

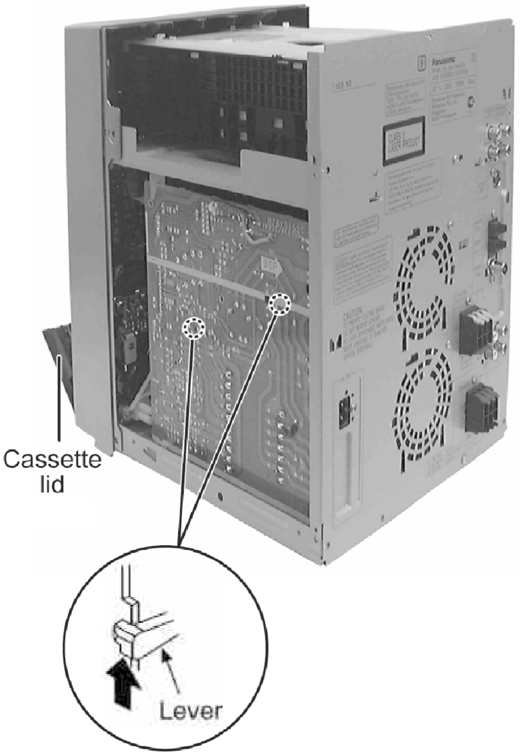
15.21. Rectification for tape jam problem

- Follow the (Step 1) - (Step 2) of Item 15.3 - Disassembly of Top Cabinet

Step 1 If a cassette tape cannot be removed from the deck (the tape is caught by the capstan or pinch roller during playback or recording), rotate the flywheel F in the direction of the arrow to remove it.



Step 2 Push the lever upward and open the cassette lid. Remove the cassette tape.


Cassette lid
Lever

16. Checking for major P.C.Bs

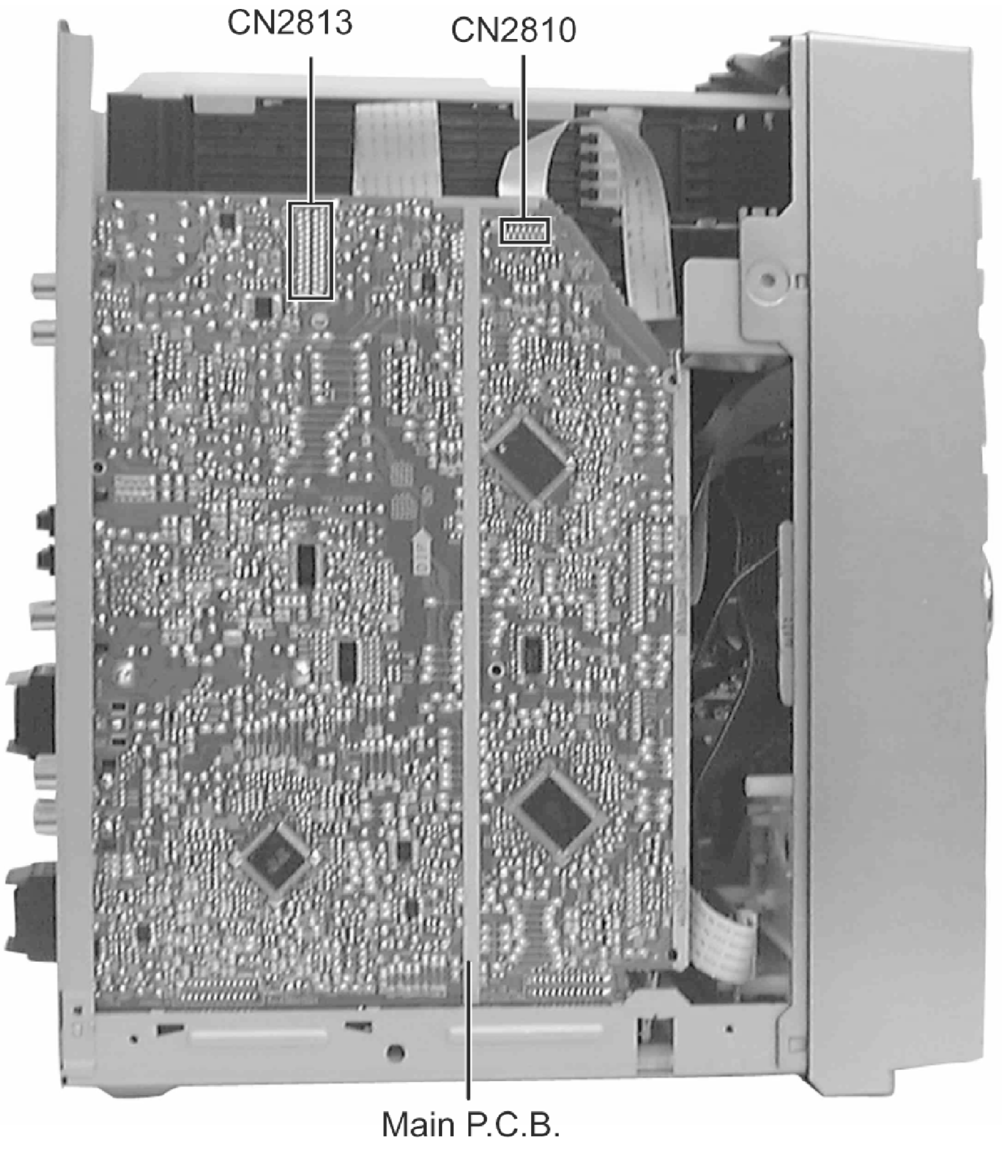
Note:
Checking of all major P.C.Bs (Main P.C.B., Panel P.C.B., Transformer P.C.B., Deck P.C.B., Deck Mechanism P.C.B., Mic P.C.B., Power P.C.B. and Power Amp P.C.B.) can be carried out using below procedures.
For the disassembling procedures, refer to Section 15.

16.1. Checking of Main P.C.B.

1. Remove Top Cabinet.

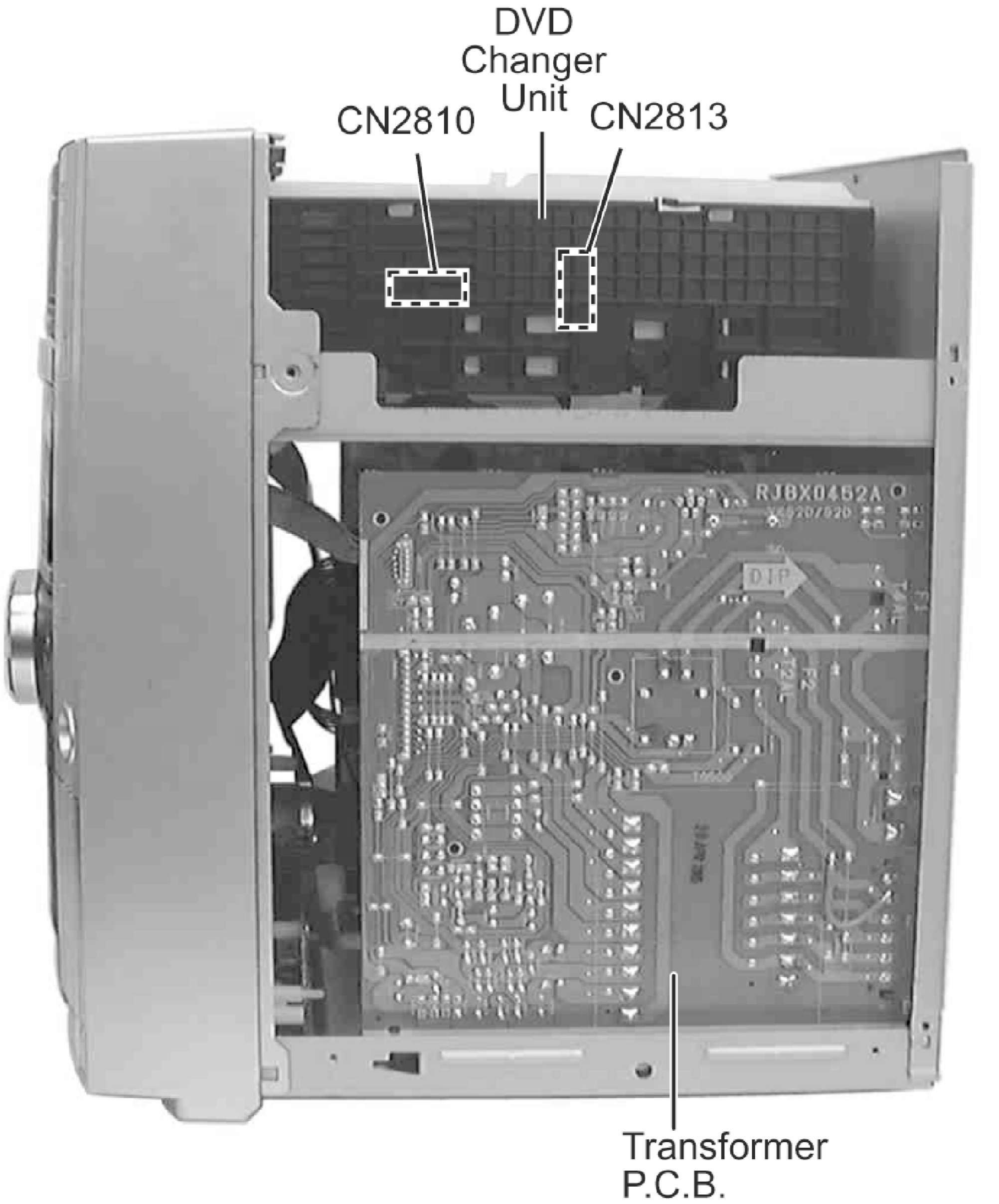
2. Disassemble DVD Changer Unit.

3. Connect FFC cables (CN2810 & CN2813) from Main P.C.B.



16.2. Checking of Transformer P.C.B.

1. Remove Top Cabinet.
2. Disassemble DVD Changer Unit.
3. Connect FFC cables (CN2810 & CN2813) from Main P.C.B.


DVD Changer Unit
CN2810
CN2813
Transformer P.C.B.

16.3. Checking of Panel, Deck & Deck Mechanism P.C.B.

1. Remove Top Cabinet.
2. Disassemble DVD Changer Unit.
3. Disassemble Front Panel Unit.

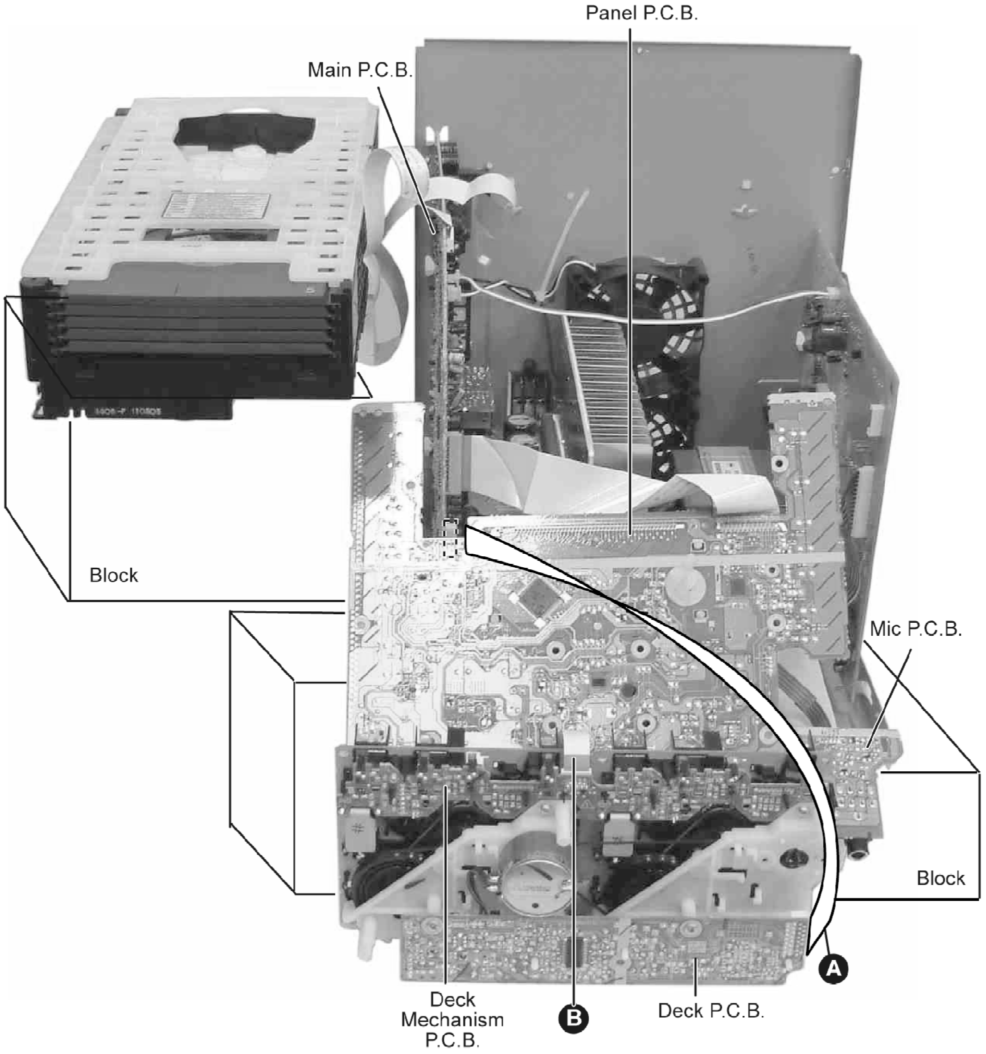
4. Remove volume knob and Mic Jack Holder.

5. Disassemble Panel P.C.B.

6. Disassemble Deck Mechanism Unit.

7. Use the extension cable (A) to reconnect (CN1001) Deck P.C.B. and (CP6803) Main P.C.B.

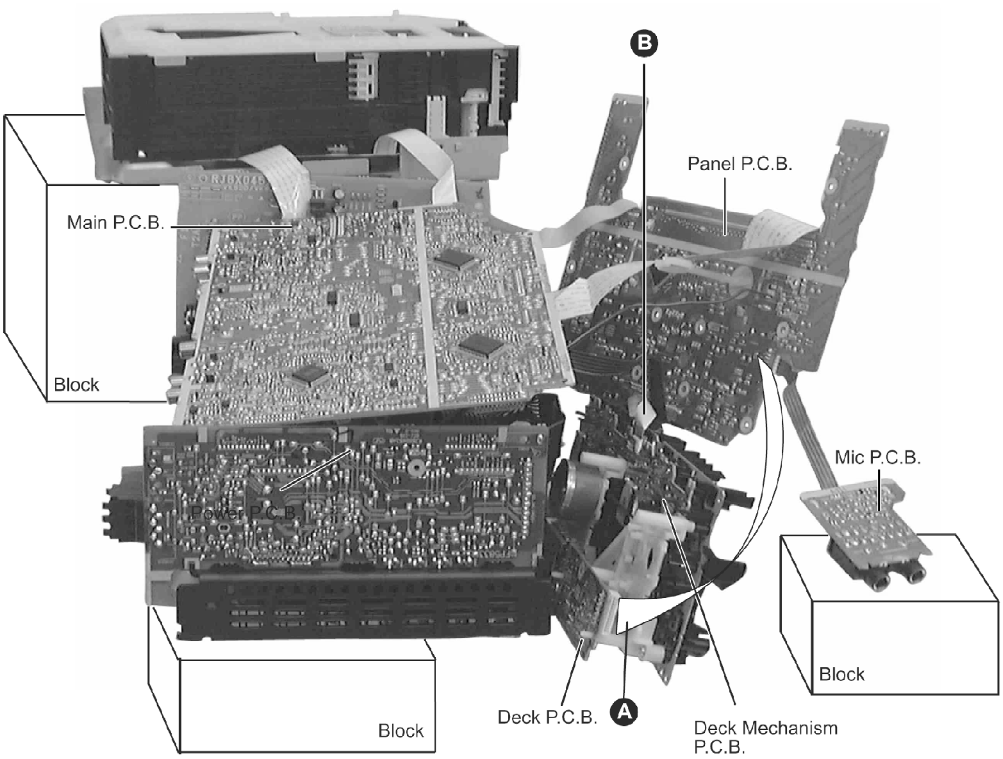
8. Use the extension cable (B) to reconnect (CP6800) Panel P.C.B. and (CN971) Deck Mechanism P.C.B.


Panel P.C.B.
Main P.C.B.
Block
Mic P.C.B.
Block
A
Deck Mechanism P.C.B.
B
Deck P.C.B.

Service Tools	
Extension FFC	
(A) Deck P.C.B. - Main P.C.B.	**REEX0485 (14 Pins)**
(B) Panel P.C.B. - Deck Mechanism P.C.B.	**REEX0484 (10 Pins)**

16.4. Checking of Power P.C.B.

1. **Remove Top Cabinet and Rear Panel.**
2. **Disassemble DVD Changer Unit.**
3. **Remove 4 screws at Transformer P.C.B..**
4. **Remove 2 screws at heat sink and 1 screw at Power P.C.B.**
5. **Flip the Power P.C.B.**
6. **Insulate the Power P.C.B. with insulation material to avoid short circuit.**
7. **Use the extension cable (A) to reconnect (CN1001) Deck P.C.B. and (CP6803) Main P.C.B.**


B
Panel P.C.B.
Main P.C.B.
Block
Power P.C.B.
Mic P.C.B.
Block
Block
Deck P.C.B.
A
Deck Mechanism
P.C.B.

Service Tools	
Extension FFC	
(A) Deck P.C.B. - Main P.C.B.	**REEX0485 (14 Pins)**
(B) Panel P.C.B. - Deck Mechanism P.C.B.	**REEX0484 (10 Pins)**

17. Measurements and Adjustments

17.1. Cassette Deck Section

- Measurement Condition

- Reverse-mode selector switch: ⟲
- Tape edit: NORMAL
- Make sure head, capstan and press roller are clean.
- Judgeable room temperature 20 ± 5 °C (68 ± 9°F)
- Measuring instrument
- EVM (DC Electronic voltmeter)
- Digital frequency counter
- Test Tape
- Tape speed gain adjustment (3 kHz, -10 dB); QZZCWAT

17.1.1. Head Azimuth Adjustment (Deck 1/2)

Caution:

- Please replace both azimuth adjustment screw and springs simultaneously when readjusting the head azimuth. (shown in Fig. 2) Even if you wish to readjust the head azimuth without replacing the acrews and springs, a fine adjustment to the azimuth screw and spring.
- Please remove the screw-locking bond left on the head base when replacing the azimuth screw.
- If you wish to readjust the head azimuth, be sure to adjust with adhering the cassette tape closely to the mechanism by pushing the center of cassette tape with your finger. (shown in Fig. 3)

1. Playback the azimuth adjustment portion (8 kHz, -20dB) of the test tape (QZZCFM) in the forward play mode. Vary the azimuth adjustment screw until the output of the R-CH (PB OUT-R) are maximized.

2. Perform the same adjustment in the reverse play mode.

3. After the adjustment, apply screwlock to the azimuth adjusting screw.

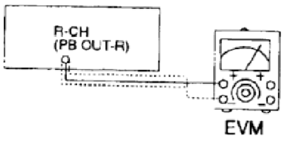

R-CH
(PB OUT-R)
EVM

Fig. 1

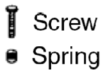

Screw
Spring

Fig.2

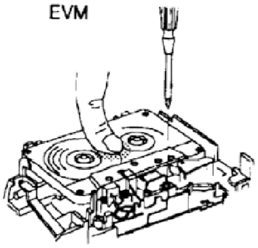


Fig. 3

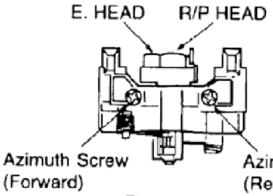

E. HEAD
R/P HEAD
Azimuth Screw
(Forward)
Azimuth Screw
(Reverse)

Fig. 4

17.1.2. Tape Speed Adjustment (Deck 1/2)

1. Set the tape edit button to "NORMAL" position.

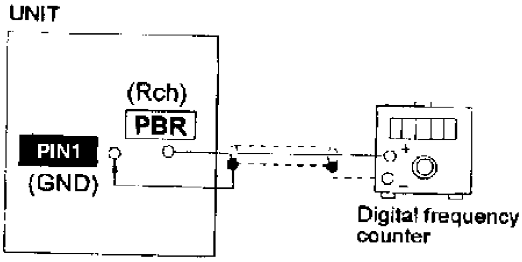
2. Insert the test tape (QZZCWAT) to DECK 2 and playback (FWD side) the middle portion of it.

3. Adjust Motor VR (DECK 2) for the output value shown below.

Adjustment target: 2940 ~ 3060 Hz (NORMAL speed)

4. After alignment, assure that the output frequency of the DECK 1 FWD are within ±60 Hz of the value of the output frequency of DECK 2 FWD.

Fig. 1


UNIT
(Rch)
PBR
PIN1
(GND)
+
C –
Digital frequency
counter

17.1.3. Bias Voltage Check

1. Set the unit "AUX" position.

2. Insert the Normal blank tape (QZZCRA) into DECK 2 and the unit to "REC" mode (use " ● REC/STOP" key).

3. Measure and make sure that the output is within the standard

value.

Bias voltage for Deck 2 **14±4mV (Normal)**

Fig. 2

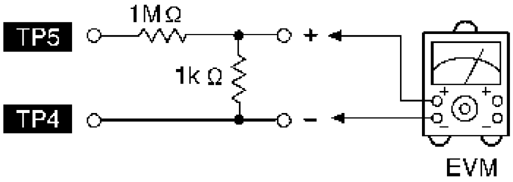
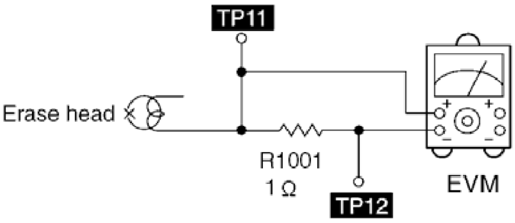

1MΩ
TP5
1kΩ
TP4
+
-
EVM

Fig. 3

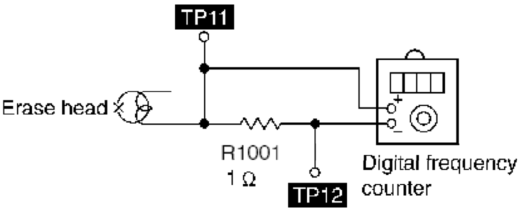

TP11
Erase head
R1001
1Ω
TP12
EVM

17.1.4. Bias Frequency Adjustment (Deck 1/2)

1. Set the unit to “AUX” position.
2. Insert the Normal blank tape (QZZCRA) into DECK 2 and set the unit to “REC” mode (● use “REC/STOP” key).
3. Adjust L1002 so that the output frequency is within the standard value.

Standard Value: 89 ~ 110 kHz

Fig. 4


TP11
Erase head
R1001
1Ω
TP12
Digital frequency counter

17.2. Tuner Section

17.2.1. AM-IF Alignment

1. Connect the instrument as shown in Fig. 5.
2. Set the unit to AM mode.
3. Apply signal as shown in Fig. 5 from AM-SG.

4. Adjust Z2602 so that the output frequency is maximized in Fig. 6.

Fig. 5

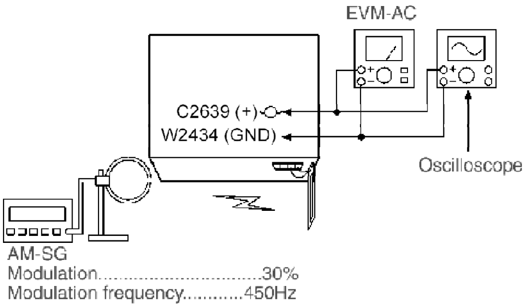
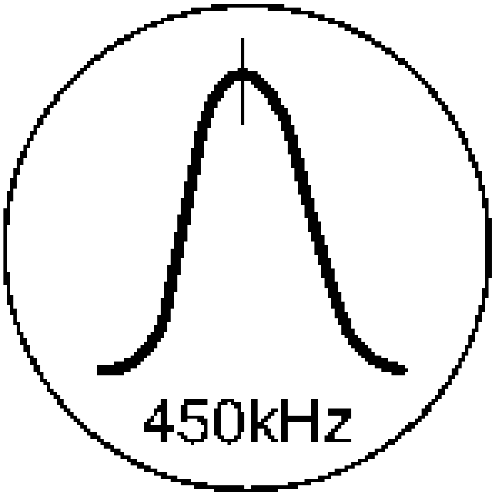

EVM-AC
C2639 (+)
W2434 (GND)
Oscilloscope
AM-SG
Modulation...............................30%
Modulation frequency...........450Hz

Fig. 6



17.2.2. AM RF Adjustment

1. Connect the instrument as shown in Fig. 7.

2. Set the unit to AM mode.

3. Set AM-SG to 520kHz.

4. Receive 520kHz in the unit.

5. Adjust L2601 (OSC) so that the EVM-AC is maximized.

6. Set AM-SG to 600Hz.

7. Receive 600Hz in the unit.

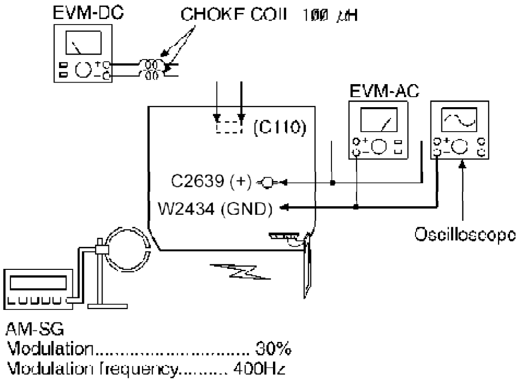
8. Adjust L2601 (ANT) so that the EVM-SG is maximized.

9. Set AM-SG to 520kHz.

10. Receive 520kHz in the unit.

11. Adjust L2602 (OSC) so that the EVM-DC value is with 1.1±0.5V.

Fig. 7

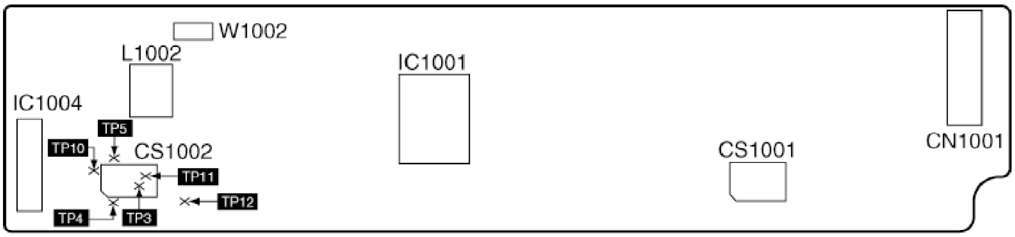


EVM-DC
CHOKE COIL 100 μH
EVM-AC
(C110)
C2639 (+)
W2434 (GND)
Oscilloscope

AM-SG
Modulation................................ 30%
Modulation frequency.......... 400Hz

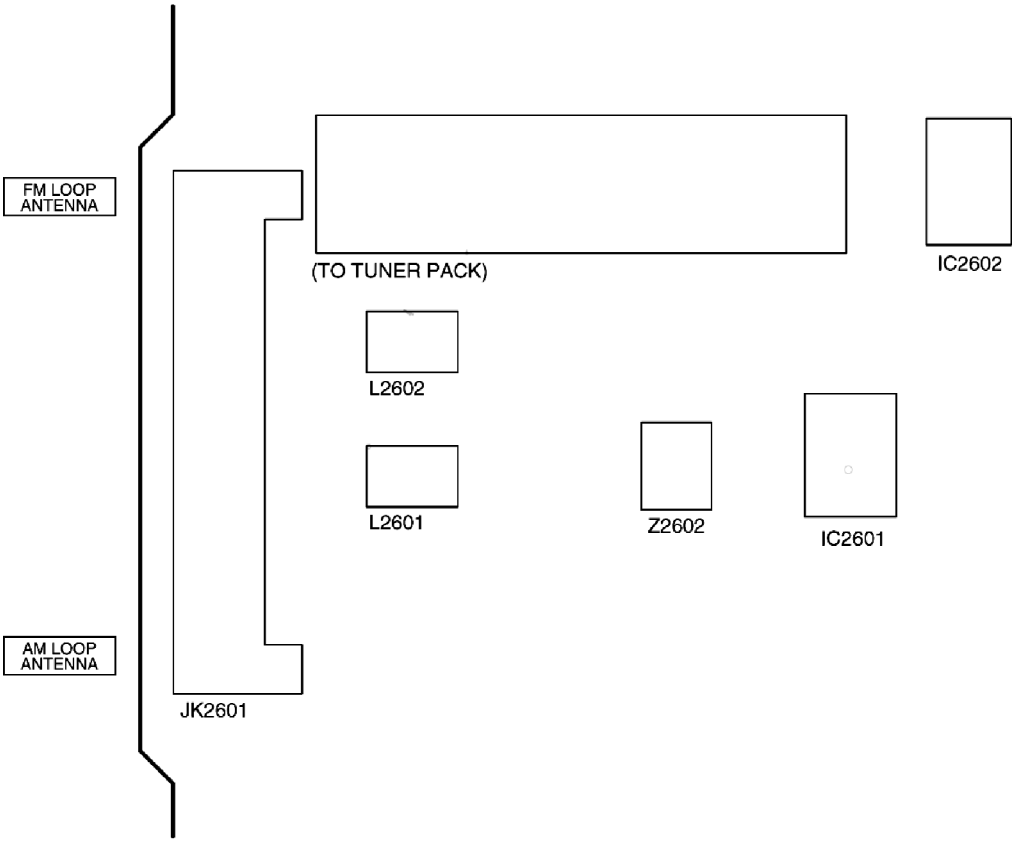
17.3. Alignment Points

17.3.1. Cassette Deck Section



W1002
L1002
IC1001
IC1004
TP5
TP10
CS1002
TP11
TP12
TP4
TP3
CS1001
CN1001

17.3.2. Adjustment Point



FM LOOP ANTENNA
(TO TUNER PACK)
IC2602
L2602
L2601
Z2602
IC2601
AM LOOP ANTENNA
JK2601

18. Block Diagram

19. Voltage Measurement

This section is not available at time of issue.

20. Schematic Diagram

(All schematic diagrams may be modified at any time with the development of the new technology)

Note:

S1
: Stock Switch

S2
: Play Switch

S3
: Bottom Switch

S4
: Open Switch

S5
: Change Switch

S951
: Mode Switch

S952
: Half Switch

S971
: Mode Switch

S972
: Half Switch

S974
: Recinh_R Switch

S975
: Recinh_F Switch

S6800
: DVD/CD Switch

S6801

: Tape Switch

S6802

: Tuner/Band Switch

S6803

: AUX Switch

S6804

: Deck 1 Switch

S6805

: Display/Demo Switch

S6806

: Deck 2 Switch

S6807

: Rew Switch

S6808

: FF Switch

S6809

: Stop Switch

S6810

: AC In Switch

S6811

: Disc Check Switch

S6812

: Multi Re-Master Switch

S6813

: Super Surround Switch

S6814

: Mic Up Switch

S6815

: Mic Down Switch

S6816

: Deck 1/2 Switch

S6817

: Rec Switch

S6818

: Sound EQ Switch

S6819

: Open/Close Switch

S6820

: Disc Change Switch

S6821

: Disc 5 Switch

S6822

: Disc 4 Switch

S6823

: Disc 3 Switch

S6824

: Disc 2 Switch

S6825

: Disc 1 Switch

S6826

: Super Sound EQ Switch

S6827

: Subwoofer Switch

VR6800

: VR Volume Jog

- **The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.**
- **Importance safety notice :**
  Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified

parts shown in the parts list.

Caution !

IC, LSI and VLSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.

- **Cover the parts boxes made of plastics with aluminium foil.**
- **Put a conductive mat on the work table.**
- **Ground the soldering iron.**
- **Do not touch the pins of IC, LSI or VLSI with fingers directly.**

20.1. Optical Pickup Unit Circuit

20.2. (A) DVD Module Circuit

20.3. (B) Main (Tuner) Circuit

20.4. (B) Main Circuit

20.5. (C) Panel Circuit & (D) Mic Circuit

20.6. (E) Deck Circuit & (F) Deck Mechanism Circuit

20.7. (G) Power Circuit

20.8. (H) Power Amp Circuit

20.9. (I) Transformer Circuit

20.10. (J) CD Loading Circuit

21. Printed Circuit Board

21.1. (A) DVD Module P.C.B. (Side: A & B)

21.2. (B) Main P.C.B.

21.3. (C) Panel P.C.B.

21.4. (D) Mic P.C.B. & (K) Tuner Pack P.C.B.

21.5. (E) Deck P.C.B. & (F) Deck Mechanism P.C.B.

21.6. (G) Power P.C.B. & (H) Power Amp P.C.B.

21.7. (I) Transformer P.C.B.

21.8. (J) CD Loading P.C.B.

22. Wiring Connection Diagram

23. Illustration of ICs, Transistors and Diodes

24. Terminal Function of IC

24.1. IC2818 (C2CBJG000653) System Microprocessor

Pin No.	Mark	I/O	Function
1	ST_SW	I	Stock Switch of Changer
2	OP/CL_REV	O	Reverse control signal for OPEN/ CLOSE motor
3	OP/CL_FWD	O	Forward control signal for OPEN/ CLOSE motor
4	OPEN_SW	I	Signal from tray OPEN Switch
5	POSITION	I	Signal from of Position Detection sensor
6	N.C.	-	No Connection
7	N.C.	-	No Connection
8	BYTE	I	VSS (GND)
9	CNVSS/ EFP_CNVSS	-	FLASH MODE TERMINAL (Connected to Ground) via 10 kΩ
10	XCIN	-	SUB CLOCK INPUT (32.768 kHz)
11	XCOUT	-	SUB CLOCK OUTPUT (32.768 kHz)
12	RESET/ ERP_RESET	I	SYSTEM RESET INPUT (ACTIVE L)
13	XOUT	-	MAIN CLOCK OUTPUT (10 MHz)
14	VSS	-	GND (0V)
15	XIN	-	MAIN CLOCK INPUT (10 MHz)

Pin No.	Mark	I/O	Function
16	**VCC**	**-**	**POWER SUPPLY (5V)**
17	**NMI**	**I**	**CONNECT TO VCC, EXTERNAL INTERRUPT I/P**
18	**RMT**	**I**	**REMOCON INPUT**
19	**SYNC**	**I**	**AC FAILURE DETECT INPUT**
20	**Up/Down R**	**O**	**Changer Motor 2 Reverse Control**
21	**Change SW**	**I**	**Changer Change Switch**
22	**BOTTOM SW**	**I**	**CHANGER BOTTOM SWITCH**
23	**UP/DOWN F**	**O**	**Changer Motor 2 Forward Control**
24	**S.Surr IC_CLK**	**O**	**Clock signal for super surround IC**
25	**S.Surr IC_DAT**	**O**	**Data signal for super surround IC**
26	**PLL_CE**	**O**	**PLL Chip Select**
27	**TU-SD**	**I**	**SIGNAL DET Input from Tuner**
28	**TU_ST/DO**	**I**	**Tuner IF Data/ Stereo Input**
29	**PLL_DA**	**O**	**PLL DATA - DI INPUT of Tuner**
30	**PLL_CK**	**O**	**Clock Signal for the PLL Tuner**
31	**EFP_TxD1**	**O**	**Transmit signal for flash micro-p**
32	**EFP_RxD1**	**O**	**Receive signal for flash micro-p**
33	**EFP_SCLK**	**O**	**Clock signal for flash micro-p**
34	**EFP_BUSY**	**O**	**Busy signal for flash micro-p**
35	**DVD_CMD**	**O**	**CMD signal for the DVD Module**
36	**DVD_STA**	**I**	**STATUS signal from the DVD Module**
37	**DVD_CK**	**I**	**CLK signal for the DVD Module**

Pin No.	Mark	I/O	Function
38	EDA	O/I	DATA Signal for the EEPROM
39	ECLK	O	CLOCK Signal for the EEPROM
40	ECS	O	CHIP SELECT Signal for the EEPROM
41	EFP_EPM	O	For Flash
42	FLD_RST	O	Reset Signal for the FL DRIVER
43	FLD_CS	O	Latch Signal for the FL DRIVER
44	FLD_DA	O	Data input for the FL DRIVER
45	FLD_CK	O	Clock Signal for the FL DRIVER
46	EFP_CE	O	For Flash
47	Wide1	O	S-Video output control
48	ASP_DA	O	DATA signal for 6ch VOL ASP
49	ASP_CK	O	CLOCK signal for 6ch VOL ASP
50	DVD_MUTE	I	Signal from DVD module control mute circuit
51	DivX_EN	I	DivX_EN
52	KA_LAT	O	Karaoke Latch
53	KA_DAT	O	Karaoke Data
54	KA_CLK	O	Karaoke Clock
55	MUTE_L	O	Mute control of Line Out
56	MUTE_H	O	HIC MUTE
57	HP_MUTE	O	Head Phone Mute signal
58	MUTE_C	O	Port for Mute control of Center
59	MUTE_SR	O	Port for Mute Control of SL/SR
60	SUB_MUTE	O	Subwoofer Mute Signal
61	MUTE_A	O	Mute Control for FL/FR
62	VCC	-	Power Supply 5.0V

Pin No.	Mark	I/O	Function
63	**N.C.**	**-**	**No Connection**
64	**VSS**	**-**	**Ground (0V)**
65	**SP_A**	**O**	**Control Speana IC's port A**
66	**SP_B**	**O**	**Control Speana IC's port B**
67	**SP_C**	**O**	**Control Speana IC's port C**
68	**DVD_PCT**	**O**	**Control Signal for the Power for the DVD MODULE**
69	**DC_DET**	**I**	**Signal from the DC Detection circuit**
70	**PCONT**	**O**	**Control Signal for the Power Control Relay**
71	**REC**	**O**	**Deck Recording Control (Recording = L)**
72	**Half1**	**I**	**Half switch signal from DECK1**
73	**Mode1**	**I**	**Mode switch signal from DECK1 (L=OFF; H=ON)**
74	**MOTOR**	**O**	**Deck Motor Control (L=OFF; H=ON)**
75	**JOG_B**	**I**	**Signal B from Volume JOG**
76	**JOG_A**	**I**	**Signal A from Volume JOG**
77	**DMT**	**O**	**Deck Mute at mecha Transition (L=Mute Off; H= MUTE On)**
78	**DECK1_H**	**I**	**Stock Switch of Changer**
79	**PLUNGER 1**	**O**	**Deck 1 Plunger Control (L=OFF; H=ON)**
80	**PLUNGER 2**	**O**	**Deck 2 Plunger Control (L=OFF; H=ON)**

Pin No.	Mark	I/O	Function
81	Model_CTL	I	To select Model when power on (VK72=L; VK82/92= H)
82	BASS	O	Port to control SSEQ -2
83	MIC_1L	I	Port to control Mic Level Up
84	MIC_2L	I	Port to control Mic Level Down
85	LED	O	Port to Control LED
86	REG1	I	Tuner Region Setting 1
87	REG2	I	Tuner Region Setting 2
88	REG3	I	Tuner Region Setting 3
89	PHOTO_1	A/D I	Rotating Detection Signal (Deck 1)
90	PHOTO_2	A/D I	Rotating Detection Signal (Deck 2)
91	DECK2_AD	A/D I	AD input from DECK2 (RINHF/MODE2/ RINHR/HALF2
92-94	KEY1-KEY3	A/D I	Key 1 to Key 3 input
95	SPEANA_AD	A/D I	Signal from Speana IC's OUT port
96	AVSS	-	ANALOG POWER SUPPLY INPUT
97	DVD_RS	A/D I	DVD Region Setting
98	VREF	-	REFERENCE VOLTAGE INPUT
99	AVcc	-	ANALOG POWER SUPPLY INPUT
100	PLAY_SW	I	Play Switch

25. Parts Location and Replacement Parts List

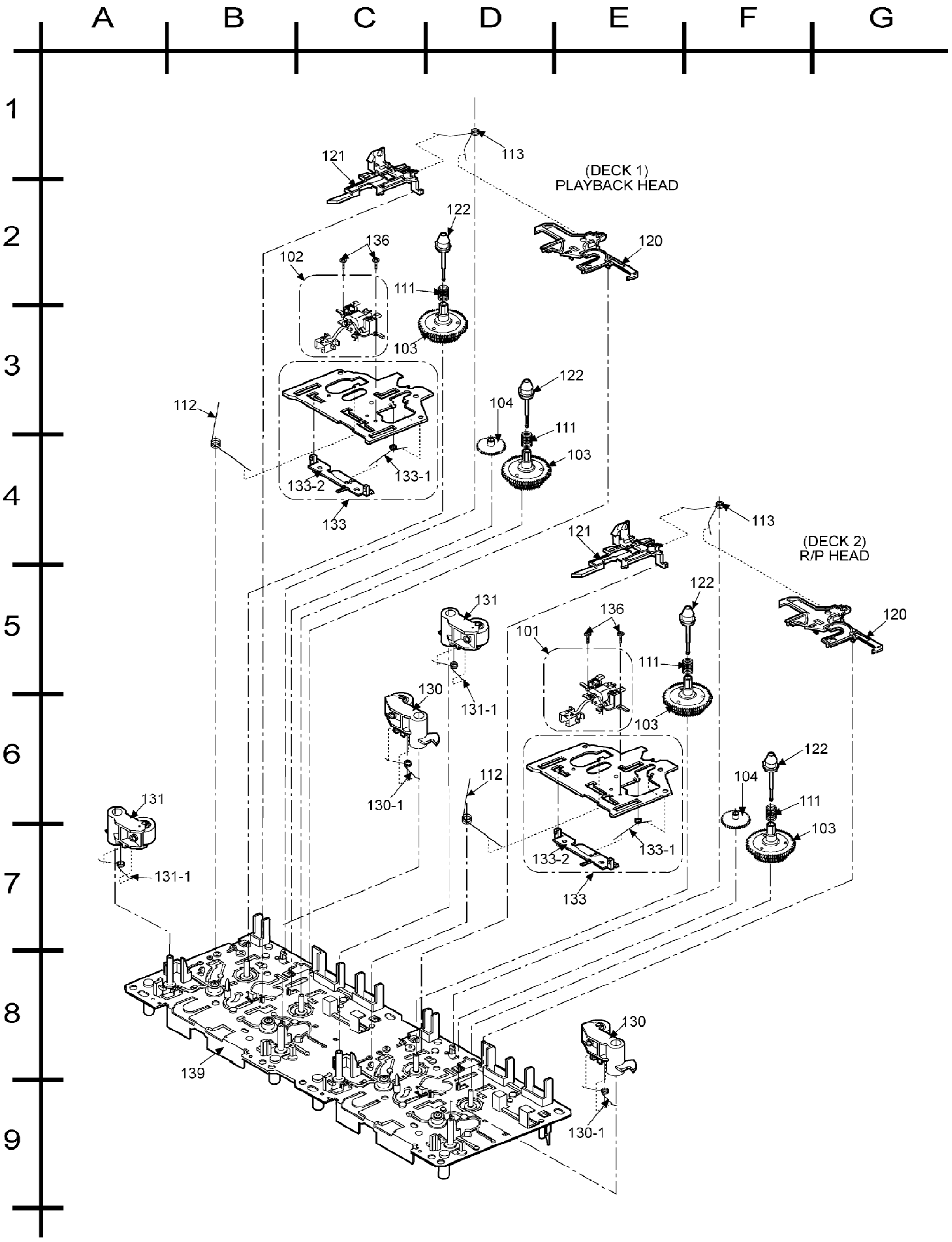
Notes:

- **Important safety notice:**
  Components identified by ⚠ mark have special characteristics important for safety.
  Furthermore, special parts which have purposes of fire-retardent (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.
  When replacing any of these components, be sure to use only manufacturer’s specified parts shown in the parts list.
- **The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour)**
  Parts without these indications can be used for all areas.
- **Warning: This product uses a laser diode. Refer to caution statements on “Precaution of Laser Diode”.**
- **Capacitor values are in microfarads (μ F) unless specified otherwise, P= Pico-farads (pF), F= Farads.**
- **Resistance values are in ohms, unless specified otherwise, 1K= 1,000 (OHM).**
- **The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**
- **[M] markings in the Remarks columns indicates parts supplied by PAVCSG.**
- **[SPG] markings in the Remarks columns indicates parts that are supplied by PAVC.**
- **Reference for O/I book languages are as follows:**

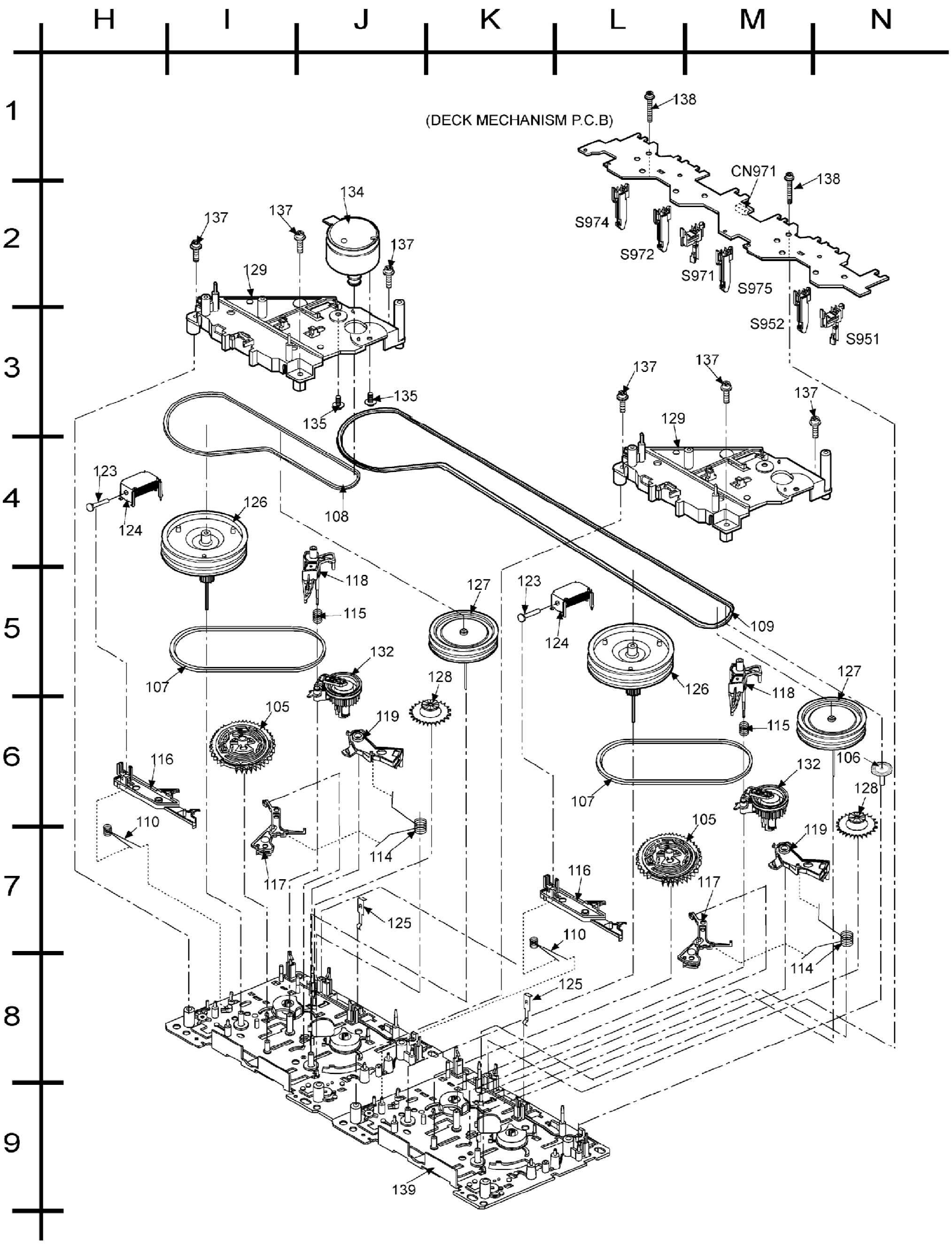
Ar:	**Arabic**	**Du:**	**Dutch**	**It:**	**Italian**	**Sp**	**Spanish**
Cf:	**Canadian French**	**En:**	**English**	**Ko:**	**Korean**	**Sw:**	**Swedis**
Cz:	**Czech**	**Fr:**	**French**	**Po:**	**Polish**	**Co:**	**Traditio Chinese**
Da:	**Danish**	**Ge:**	**German**	**Ru:**	**Russian**	**Cn:**	**Simplifi Chinese**
Pe:	**Persian**	**Ur:**	**Ukraine**				

25.1. Deck Mechanism (RAA3413-S)

25.1.1. Deck Mechanism Parts Location



A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
121
113
(DECK 1)
PLAYBACK HEAD
122
136
102
120
111
103
112
104
122
111
103
133-2
133-1
133
121
113
(DECK 2)
R/P HEAD
122
131
136
101
120
111
130
131-1
103
112
104
122
130-1
111
103
131
133-2
133-1
131-1
133
130
139
130-1

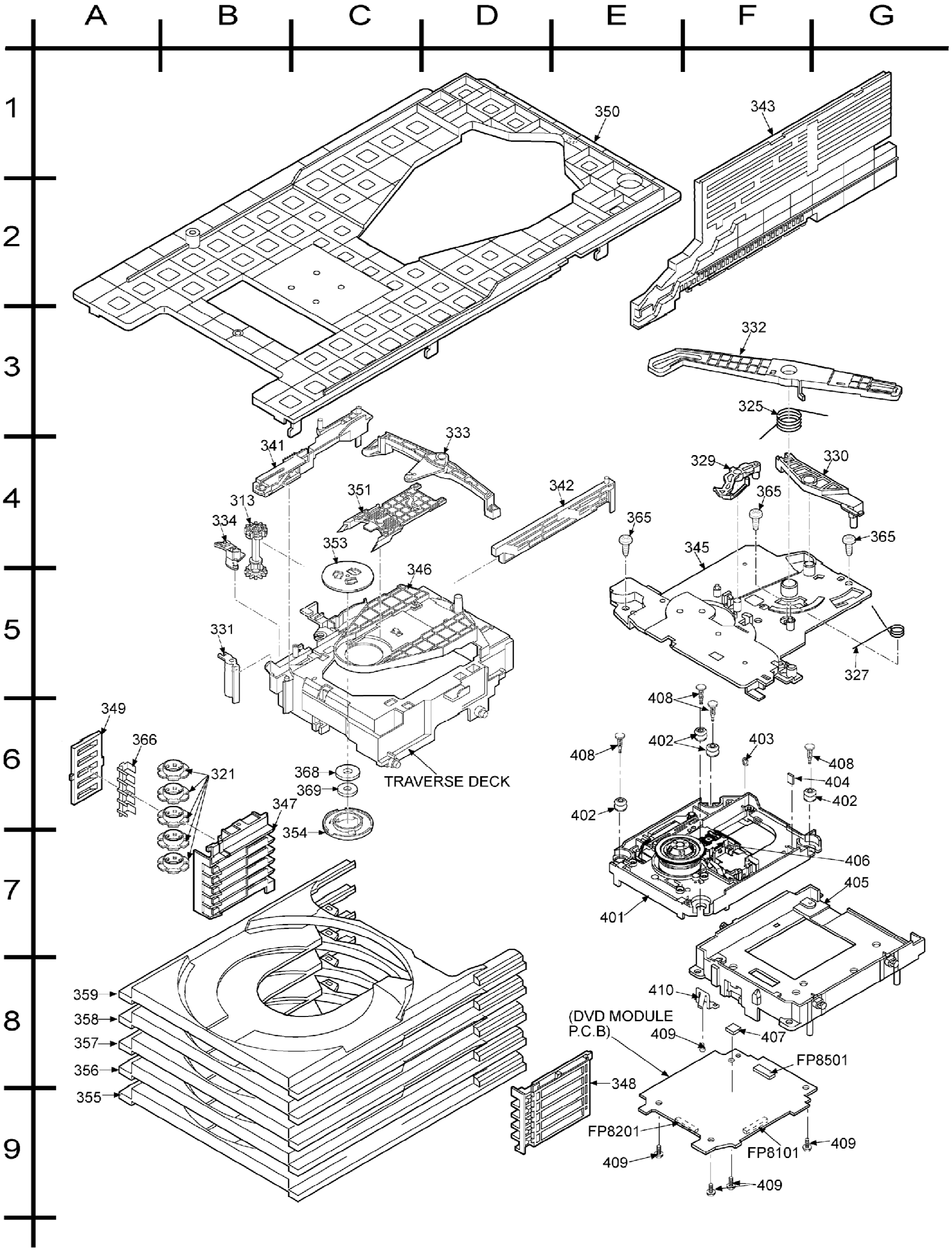

H
I
J
K
L
M
N
1
2
3
4
5
6
7
8
9
(DECK MECHANISM P.C.B)
138
CN971
138
S974
S972
S971
S975
S952
S951
134
137
137
137
129
135
135
137
137
137
129
123
124
126
108
118
115
127
123
124
109
107
132
128
126
118
115
127
105
119
106
116
107
132
128
110
114
117
105
119
125
116
117
110
114
125
139

25.1.2. Deck Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK	
101	RED0064	R/P HEAD BLOCK UNIT	[M]
102	RED0063	P/B HEAD BLOCK UNIT	[M]
103	RDG0300	REEL BASE GEAR	[M]
104	RDG0301	WINDING RELAY GEAR	[M]
105	RDK0026	MAIN GEAR	[M]
106	RDR0029-3	RELAY PULLEY	[M]
107	RDV0033-4	WINDING BELT	[M]
108	RDV0034-2	CAPSTAN BELT A	[M]
109	RDV0057	MAIN BELT B	[M]
110	RMB0312	TRIGGER LEVER SPRING	[M]
111	RMB0400	REEL SPRING	[M]
112	RMB0403	HEAD PANEL SPRING	[M]
113	RMB0404	BRAKE ROD SPRING	[M]
114	RMB0406	FR LEVER SPRING	[M]
115	RMB0408	THRUST SPRING	[M]
116	RML0370	TRIGGER LEVER	[M]
117	RML0371	FR LEVER	[M]
118	RML0372	WINDING LEVER	[M]
119	RML0374	EJECT LEVER	[M]
120	RMM0131	BRAKE ROD	[M]
121	RMM0133-1	EJECT ROD	[M]
122	RMQ0519	REEL HUB	[M]
123	RMS0398-1	MOVING CORE	[M]
124	RSJ0003	PLUNGER ASS’Y	[M]
125	RMC0061	PACK SPRING	[M]
126	RXF0049	FLYWHEEL F ASS’Y	[M]
127	RXF0050	FLYWHEEL R ASS’Y	[M]
128	RXG0040	FF RELAY GEAR ASS’Y	[M]
129	RMK0283A-J	SUB-CHASSIS	[M]
130	RXL0124	PINCH ROLLER F ASS’Y	[M]
130-1	RMB0401	PINCH ARM SPRING F	[M]
131	RXL0125	PINCH ROLLER R ASS’Y	[M]
131-1	RMB0402	PINCH ARM SPRING R	[M]
132	RXL0126	WINDING ARM ASS’Y	[M]
133	RXQ0412	HEAD PANEL ASS’Y	[M]
133-1	RMB0405	FR ROD SPRING	[M]
133-2	RMM0132	FR ROD	[M]
134	REM0121	CAP MOTOR ASS’Y	[M]
135	RHD26022	MOTOR SCREW	[M]
136	XTW2+5LFJ	HEAD BLOCK UNIT SCREW	[M]
137	XTW26+10SFJ	SUB-CHASSIS SCREW	[M]
138	XYC2+JF17FJ	PCB EARTH SCREW	[M]
139	RFKJXED70-K	MAIN CHASSIS	[M]

25.2. DVD Loading Mechanism

25.2.1. DVD Loading Mechanism Parts Location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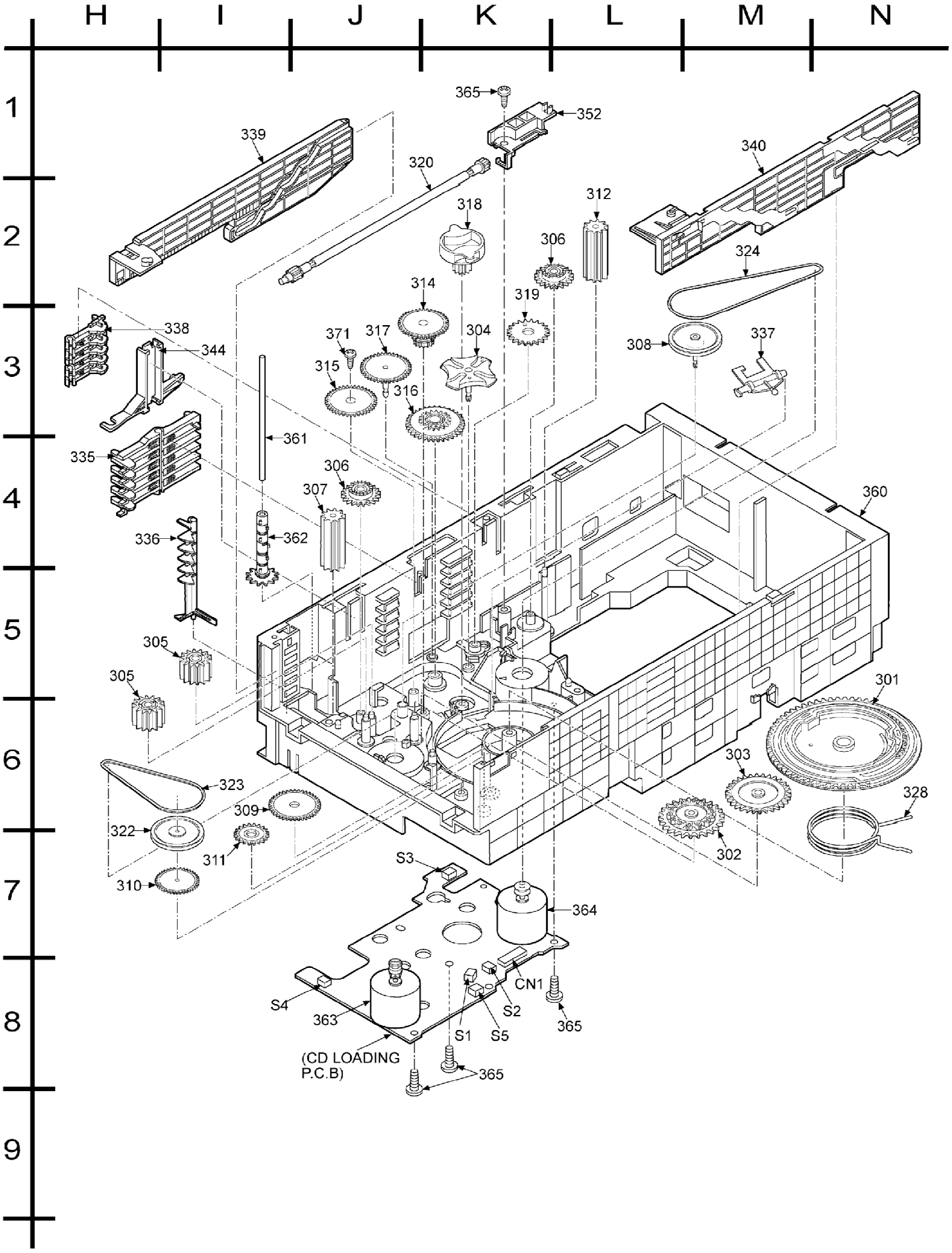
TRAVERSE DECK
(DVD MODULE
P.C.B)
FP8501
FP8201
FP8101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323
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322
302
311
S3
310
364
CN1
S4
363
S2
S1
S5
365
(CD LOADING
P.C.B)
365

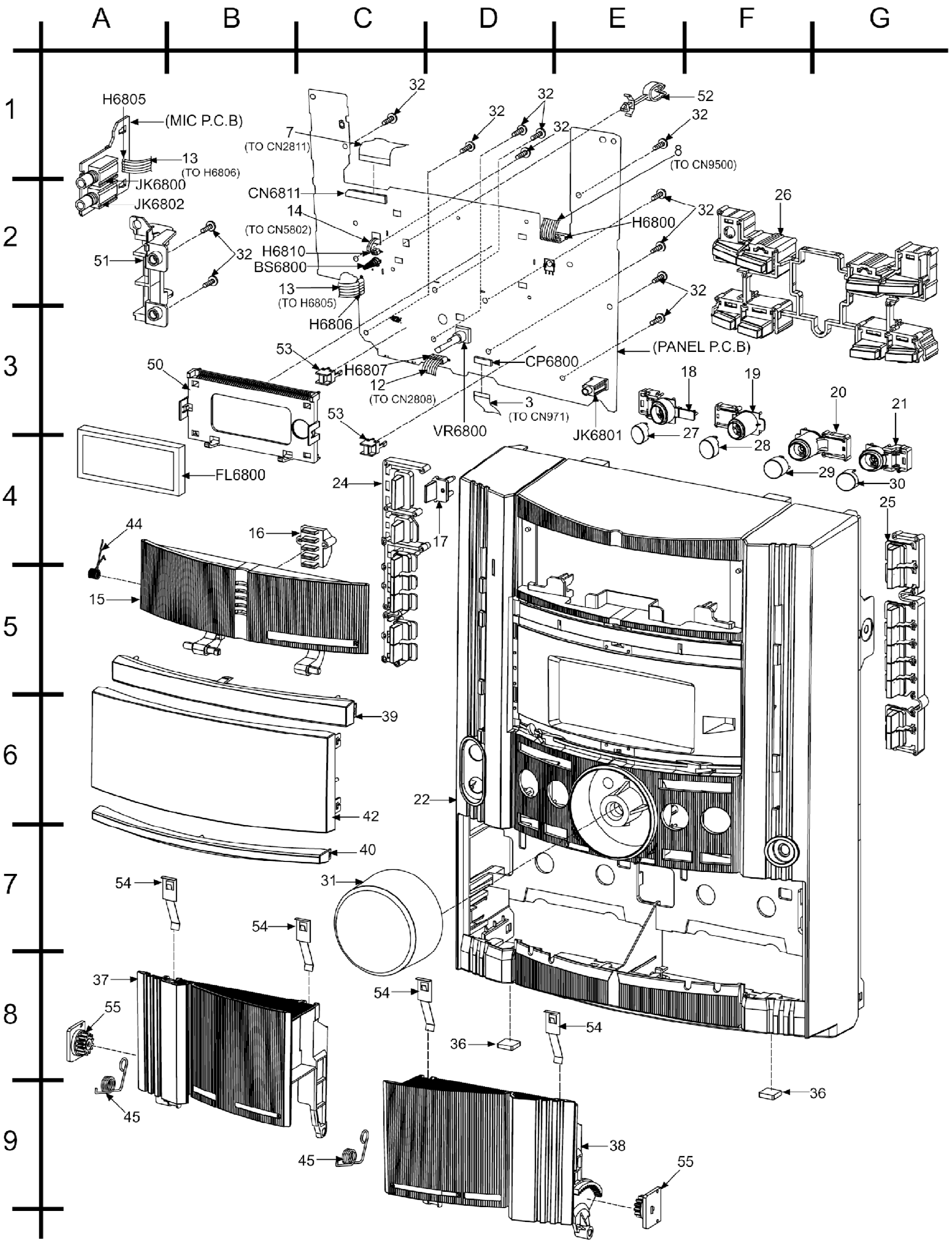
25.2.2. DVD Loading Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK	
301	RDG0519	MAIN GEAR	[M]
302	RDG0520	SPEED UP GEAR	[M]
303	RDG0521	REVERSE GEAR	[M]
304	RDG0522	GENEVA GEAR	[M]
305	RDG0523	HOR RELAY GEAR	[M]
306	RDG0525	CROWN GEAR	[M]
307	RDG0526	TRAY RELAY GEAR	[M]
308	RDG0527	UD PULLEY GEAR	[M]
309	RDG0528	HOR SPEED DOWN GEAR	[M]
310	RDG0529	HOR SPEED DOWN GEAR	[M]
311	RDG0530	HOR DRIVE GEAR	[M]
312	RDG0531	LOAD RELAY GEAR	[M]
313	RDG0532	LOAD GEAR	[M]
314	RDG0535	UD SPEED DOWN GEAR	[M]
315	RDG0534	UD SPEED DOWN GEAR	[M]
316	RDG0536	SELECT SPEED DOWN GEAR	[M]
317	RDG0537-1	SELECT DRIVE GEAR	[M]
318	RDG0538-1	CHANGE GEAR	[M]
319	RDG0539	UD DRIVE GEAR	[M]
320	RDG0540	TIMING GEAR	[M]
321	RDG0542	TRAY GEAR	[M]
322	RDG0543	HOR PULLEY GEAR	[M]
323	RDV0068	HOR BELT	[M]
324	RDV0069	UD BELT	[M]
325	RME0344-1	UD ASSIST SPRING	[M]
327	RME0363-1	LIMIT SPRING	[M]
328	RME0368-1	MAIN GEAR SPRING	[M]
329	RML0616	SPEED UP LOCK	[M]
330	RML0617-2	SEPARATE LEVER 1	[M]
331	RML0618-1	SEPARATE LEVER 2	[M]
332	RML0619-1	UD. CONNECTION LEVER	[M]
333	RML0620	TRV.CONNECT LEVER	[M]
334	RML0621-2	TRAY CHG. LEVER	[M]
335	RML0702	TRAY LOCK LEVER	[M]
336	RML0623	OPEN SW. LEVER	[M]
337	RML0624	CHG. LEVER	[M]
338	RML0701	TRAY STOPPER	[M]
339	RMM0239-1	UD.RACK [L]	[M]
340	RMM0240	UD.RACK [R]	[M]
341	RMM0290	TRV.SLIDE PLATE [L]	[M]
342	RMM0242-1	TRV.SLIDE PLATE [R]	[M]
343	RMM0243	SELECT RACK	[M]
344	RMM0244	SELECT GUIDE	[M]
345	RMQ1051-2	PITCH PLATE	[M]
346	RMQ1461	UD BASE	[M]
347	RMQ1056	TRAY GUIDE [L]	[M]
348	RMQ1057	TRAY GUIDE [R]	[M]
349	RMQ1058	GEAR HOLDER	[M]
350	RMQ1059-2	TOP COVER	[M]
351	RMQ1060	CLAMP GUIDE	[M]
352	RMQ1061	TG.PLATE	[M]
353	RMR1531-X	FIXTURE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
354	RMR1446-X	CLAMPER	[M]
355	RMR1714A-H	TRAY NO. 1	[M]
356	RMR1714B-H	TRAY NO. 2	[M]
357	RMR1714C-H	TRAY NO. 3	[M]
358	RMR1714D-H	TRAY NO. 4	[M]
359	RMR1714E-H	TRAY NO. 5	[M]
360	RFKNAPM77MDS	MECHA BASE ASS’Y	[M]
361	RMS0762	TRAY GEAR SHAFT	[M]
362	RXG0053	TRAY DRIVE GEAR ASSY	[M]
363	RXQ0803	LOADING MOTOR ASSY	[M]
364	RXQ0804	UD MOTOR ASSY	[M]
365	XTB3+10JFJ	SCREW	[M]
366	RMC0472	TRAY SPRING	[M]
368	XWG6FFY	BACK YOKE	[M]
369	JSM0048	MAGNET	[M]
371	RHD26045-L	SCREW	[M]
401	RAE2012Z-S	DU69U BLK	[M]
402	RMG0598-A	FLOATING RUBBER	[M]
403	RMG0617-H	CUSHION RUBBER A	[M]
404	RMG0618-H	CUSHION RUBBER B	[M]
405	RMR1596-X2	MIDDLE CHASSIS	[M]
406	RXQ1252	DVD OPU SUB ASS’Y	[M]
407	RMX0290	PLASTIC SHEET	[M]
408	RMS0789	FIXED PIN	[M]
409	XTV2+6GFJ	SCREW	[M]
410	RMC0387	SUPPORT SPRING	[M]

25.3. Cabinet

25.3.1. Cabinet Parts Location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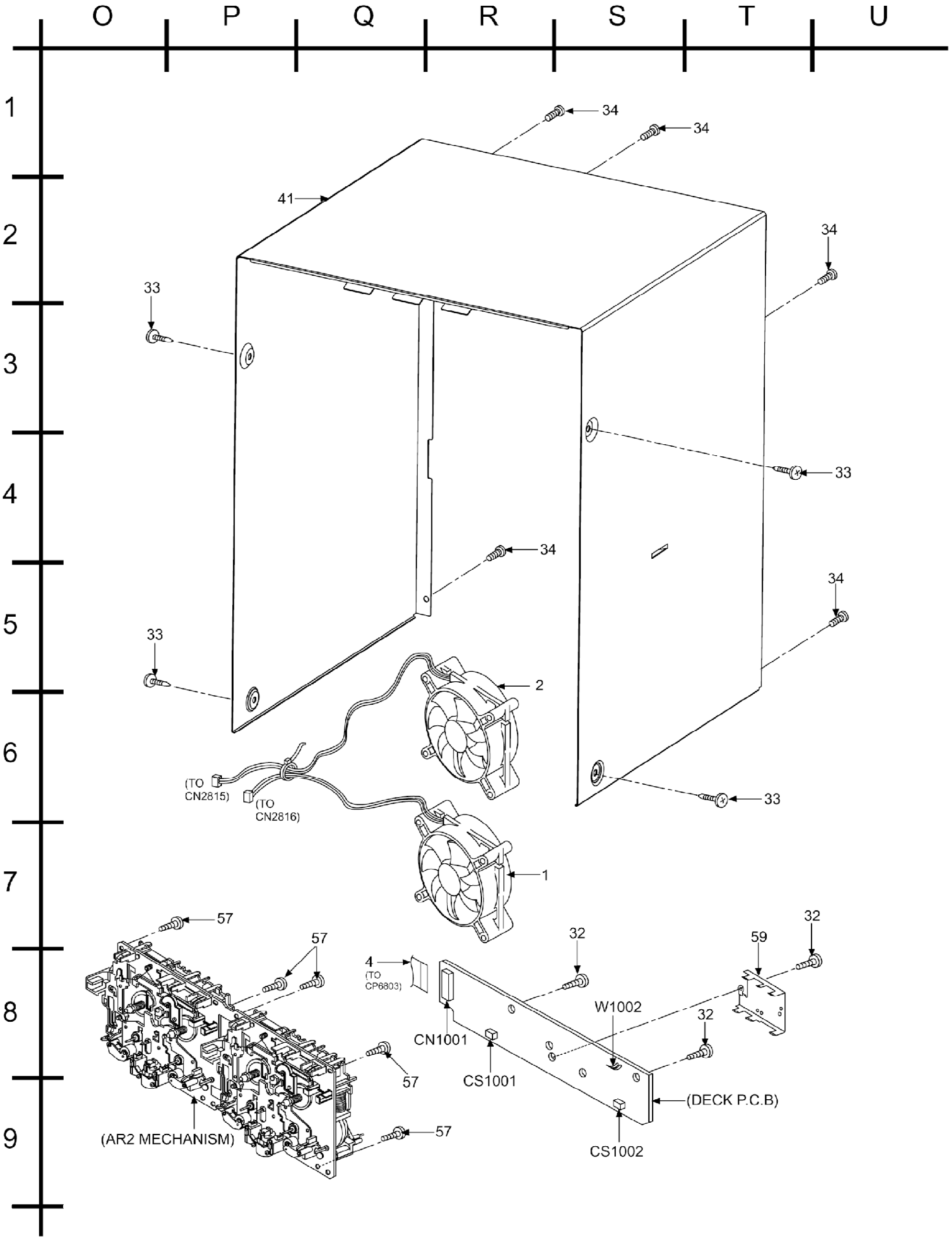
H6805
(MIC P.C.B)
(TO H6806)
JK6800
JK6802
(TO CN2811)
(TO CN9500)
CN6811
(TO CN5802)
H6810
BS6800
(TO H6805)
H6806
H6800
(PANEL P.C.B)
H6807
(TO CN2808)
CP6800
(TO CN971)
VR6800
JK6801
FL6800


O
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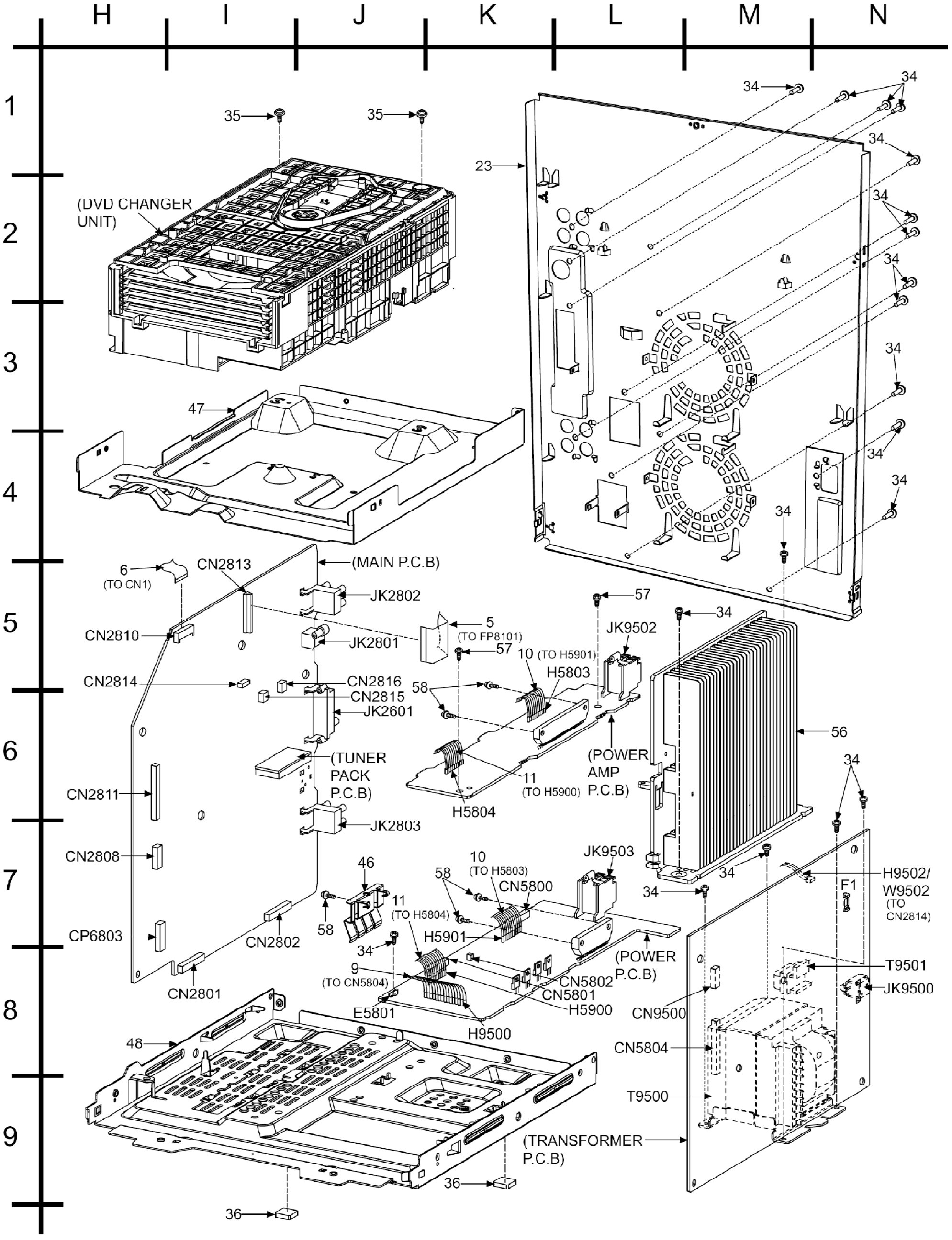
(TO CN2815)
(TO CN2816)
(TO CP6803)
W1002
CN1001
CS1001
(DECK P.C.B)
(AR2 MECHANISM)
CS1002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35
(DVD CHANGER UNIT)
47
23
34
56
57
6
(TO CN1)
CN2813
(MAIN P.C.B)
JK2802
CN2810
JK2801
5
(TO FP8101)
10 (TO H5901)
JK9502
H5803
CN2814
CN2816
CN2815
JK2601
58
(POWER AMP P.C.B)
(TUNER PACK P.C.B)
11
(TO H5900)
H5804
CN2811
JK2803
CN2808
46
10
(TO H5803)
CN5800
JK9503
H9502/ W9502
(TO CN2814)
F1
11
(TO H5804)
H5901
CP6803
CN2802
9
(TO CN5804)
CN5802
CN5801
H5900
(POWER P.C.B)
T9501
JK9500
CN2801
E5801
H9500
CN9500
48
CN5804
T9500
(TRANSFORMER P.C.B)
36
36

25.3.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	L6FALEFH0023	FAN	[M]
2	L6FALEFH0030	FAN	[M]
3	REEX0202	10P FFC (PANEL)	[M]
4	REEX0211	14P FFC WIRE (DECK)	[M]
5	REEX0454	50P FCC WIRE (DVD)	[M]
6	REEX0455	14P FFC WIRE (DVD)	[M]
7	REEX0470	30P FFC WIRE (PANEL)	[M]
8	REXX0476	7P FLAT WIRE	[M]
9	REXX0477	15P FLAT WIRE	[M]
10	REXX0478	10P FLAT WIRE	[M]
11	REXX0493	11P FLAT WIRE	[M]
12	REXX0483	6P (2MM) FLAT WIRE	[M]
13	REXX0486	5P (2MM) FLAT WIRE	[M]
14	REXX0491	2P WIRE (PANEL)	[M]
15	RGKX0315-1S	CD LID	[M]
16	RGLX0112-D	CD LID ORNAMENT	[M]
17	RGLX0113-Q	POWER LIGHT CHIP	[M]
18	RGLX0116-Q	F/BTN A (AUX)	[M]
19	RGLX0117-Q	F/BTN B (FM)	[M]
20	RGLX0118-Q	F/BTN C (TAPE)	[M]
21	RGLX0119-Q	F/BTN D (CD/DVD)	[M]
22	RGPX0198F-1S	FRONT PANEL	[M]
23	RGRX0052C-A	REAR PANEL	[M]
24	RGUX0630-S	POWER BUTTON	[M]
25	RGUX0631-S	CD CONTROL BUTTON	[M]
26	RGUX0632-1S	CONTROL BUTTON	[M]
27	RGUX0633-1S	F/BTN CAP A (AUX)	[M]
28	RGUX0634-1S	F/BTN CAP B (FM)	[M]
29	RGUX0635-1S	F/BTN CAP C (TAPE)	[M]
30	RGUX0636-1S	F/BTN CAP D (CD/DVD)	[M]
31	RGWX0072-S	VOLUME KNOB	[M]
32	RHD26046	SCREW	[M]
33	RHD30004-2S	SCREW	[M]
34	RHD30119-S	SCREW	[M]
35	RHDX30006	STEP SCREW	[M]
36	RKA0072-KJ	LEG CUSHION	[M]
37	RKFX0129-1S1	CASS LID L	[M]
38	RKFX0130-1S	CASS LID R	[M]
39	RGKX0316-S	FL ORNAMENT UPPER	[M]
40	RGKX0317-S	FL ORNAMENT LOWER	[M]
41	RKMX0105C-S	TOP CABINET (BENT)	[M]
42	RKWX0252H-V	FL WINDOW	[M]
44	RMBX0033	CD LID OPEN SPRING	[M]
45	RMBX0036	CASS OPEN SPRING	[M]
46	RMCX0021-J	TRANSISTOR CLIP	[M]
47	RMKX0109A-1	DVD CHASSIS	[M]
48	RMKX0111	BOTTOM CHASSIS	[M]
50	RMNX0110	FL HOLDER	[M]
51	RMNX0133-1	MIC JACK HOLDER	[M]
52	RMNX0159	WIRE CLAMPER	[M]
53	RMNX0160	LED HOLDER	[M]
54	RUS757ZAA	CASS HALF SPRING	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
55	RXGX0002	DAMPER GEAR	[M]
56	RXXX0065	HEAT SINK UNIT	[M]
57	XTB3+10JFJ	SCREW	[M]
58	XTW3+15TFJ	SCREW	[M]
59	RSQX0006	D/SHIELD PLATE UNIT	[M]

25.4. Electrical Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARD	
	REP3908B	DVD MODULE P.C.B. (SIDE: A)	[M](RTL)
	REP3908B	DVD MODULE P.C.B. (SIDE: B)	[M](RTL)
	REPX0486D	MAIN P.C.B.	[M](RTL)
	REPX0487A	PANEL P.C.B.	[M](RTL)
	REPX0487A	MIC P.C.B.	[M](RTL)
	REP1999B	TUNER PACK P.C.B.	[M](RTL)
	REPX0331E	DECK P.C.B.	[M](RTL)
	REPX0321B	DECK MECHANISM P.C.B.	[M](RTL)
	REPX0488C	POWER P.C.B.	[M](RTL)
	REPX0488C	POWER AMP P.C.B.	[M](RTL)
	REPX0489E	TRANSFORMER P.C.B.	[M](RTL)
	REP3569A	CD LOADING P.C.B.	[M](RTL)
		INTEGRATED CIRCUITS	
IC11	C0GAG0000007	IC UP/DOWN MOTOR DRIVE	[M]
IC21	C0GAG0000007	IC LOADING MOTOR DRIVE	[M]
IC951	CNB13030R2AU	IC PHOTO INTERRUPTER	[M]
IC971	CNB13030R2AU	IC PHOTO INTERRUPTER	[M]
IC1001	AN7348S-E1	IC P.B. EQ/REC AMP/ALC/TPS AMP	[M]
IC1004	C1AA00000612	IC R/P SELECT	[M]
IC2006	C9ZB00000498	IC VIDEO BUFFER	[M]
IC2601	LA1833NMNTLM	IC FM/AM IF AMP,DET/AM OSC MIX/FM & MPX	[M]
IC2602	LC72131MDTRM	IC PLLFREQUENCY SYNTHESIZER	[M]
IC2800	C1BB00000979	IC ANALOG SURROUND	[M]
IC2803	C0DBEZG00021	IC REGULATOR	[M]
IC2811	C0AABA000009	IC DUAL OP AMP	[M]
IC2812	C1BB00000845	IC ASP	[M]
IC2813	C1BB00001012	IC KARAOKE	[M]
IC2814	KIA4558FEL	IC DUAL OP AMP	[M]
IC2815	KIA4558FEL	IC DUAL OP AMP	[M]
IC2817	C1BB00000086	IC SPEAKER ANALYZER	[M]
IC2818	C2CBJG000653	IC MICROPROCESSOR	[M]
IC2819	KIA4558FEL	IC DUAL OP AMP	[M]
IC5001	RSN35H2B-P	IC POWER HIC	[M]
IC5801	RSN315H42C-P	IC POWER HIC	[M]
IC6803	C0HBB0000039	IC FL DRIVE	[M]
IC8001	MN2DS0009AP	IC DV3.2	[M]
IC8051	C3ABPG000145	IC 64 SDRAM	[M]
IC8111	C0CBCBD00018	IC 3.3V REGULATOR	[M]
IC8251	C0GBG0000048	IC DRIVE	[M]
IC8421	C0FBBK000050	IC 8-CH DAC	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
IC8601	C0EBA0000029	IC RESET	[M]
IC8606	C0EBE0000455	IC RESET	[M]
IC8651	RFKWMH90E160	IC FLASH ROM	[SPG]
IC8691	C0JBAA000346	IC AND GATE LOGIC	[M]
IC8695	C0JBAA000346	IC AND GATE LOGIC	[M]
IC9500	C0DAAMH00010	IC DC-DC CONVERTER	[M]
		TRANSISTORS	
Q1	2SK544F-AC	TRANSISTOR	[M]
Q1	B3NAA0000068	TRANSISTOR	[M]
Q2	B1AAAC000016	TRANSISTOR	[M]
Q3	B1AAAD000015	TRANSISTOR	[M]
Q4	B1AAAD000015	TRANSISTOR	[M]
Q1003	B1AAGC000007	TRANSISTOR	[M]
Q1004	B1AAGC000007	TRANSISTOR	[M]
Q1005	B1AAGC000007	TRANSISTOR	[M]
Q1007	B1ABCF000176	TRANSISTOR	[M]
Q1017	B1AARC000003	TRANSISTOR	[M]
Q2601	B1AABC000003	TRANSISTOR	[M]
Q2606	B1GCCFJJ0016	TRANSISTOR	[M]
Q2702	B1GBCFJJ0051	TRANSISTOR	[M]
Q2703	B1GDCFJJ0047	TRANSISTOR	[M]
Q2704	B1GDCFJJ0047	TRANSISTOR	[M]
Q2710	B1GBCFJJ0051	TRANSISTOR	[M]
Q2806	B1GBCFJN0033	TRANSISTOR	[M]
Q2813	B1GFGCAA0001	TRANSISTOR	[M]
Q2814	B1GDCFGA0018	TRANSISTOR	[M]
Q2815	B1GDCFGA0018	TRANSISTOR	[M]
Q2816	B1GDCFGA0018	TRANSISTOR	[M]
Q2818	B1GFGCAA0001	TRANSISTOR	[M]
Q2819	B1GFGCAA0001	TRANSISTOR	[M]
Q2820	B1ABEB000002	TRANSISTOR	[M]
Q2822	B1GDCFGA0018	TRANSISTOR	[M]
Q2823	B1GDCFGA0018	TRANSISTOR	[M]
Q2825	B1ABEB000002	TRANSISTOR	[M]
Q2838	B1GBCFJN0033	TRANSISTOR	[M]
Q2906	B1GBCFJA0028	TRANSISTOR	[M]
Q2909	2SD0592ARA	TRANSISTOR	[M]
Q2910	2SD0601AHL	TRANSISTOR	[M]
Q2911	2SB0709AHL	TRANSISTOR	[M]
Q2912	2SB0709AHL	TRANSISTOR	[M]
Q2913	2SD0601AHL	TRANSISTOR	[M]
Q2914	2SD0592ARA	TRANSISTOR	[M]
Q2915	2SB0709AHL	TRANSISTOR	[M]
Q2916	2SB0709AHL	TRANSISTOR	[M]
Q2917	B1ABEB000002	TRANSISTOR	[M]
Q2919	B1GFGCAA0001	TRANSISTOR	[M]
Q2920	B1GDCFGA0018	TRANSISTOR	[M]
Q5801	B1ABCF000176	TRANSISTOR	[M]
Q5802	B1BCCG000002	TRANSISTOR	[M]
Q5803	B1BACG000023	TRANSISTOR	[M]
Q5804	B1BCCG000002	TRANSISTOR	[M]
Q5805	B1ACCF000094	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q5806	B1GDCFGA0018	TRANSISTOR	[M]
Q5807	B1ABCF000176	TRANSISTOR	[M]
Q5808	B1AAKD000014	TRANSISTOR	[M]
Q5809	B1BACG000023	TRANSISTOR	[M]
Q5810	B1ABCF000176	TRANSISTOR	[M]
Q5811	B1ABCF000176	TRANSISTOR	[M]
Q6800	B1ACKD000004	TRANSISTOR	[M]
Q6801	B1ACKD000004	TRANSISTOR	[M]
Q6802	B1GBCFJJ0051	TRANSISTOR	[M]
Q6803	B1ACCF000094	TRANSISTOR	[M]
Q6804	B1ACCF000094	TRANSISTOR	[M]
Q6805	B1GACFJJ0018	TRANSISTOR	[M]
Q6806	B1ABCF000176	TRANSISTOR	[M]
Q6807	B1ABCF000176	TRANSISTOR	[M]
Q6808	B1GBCFJJ0051	TRANSISTOR	[M]
Q6809	B1GFGCAA0001	TRANSISTOR	[M]
Q6810	B1GCCFGA0006	TRANSISTOR	[M]
Q6811	B1GBCFJN0033	TRANSISTOR	[M]
Q6817	B1ABCF000176	TRANSISTOR	[M]
Q6820	B1GBCFJN0033	TRANSISTOR	[M]
Q8321	2SB1218ARL	TRANSISTOR	[M]
Q8325	2SB1218ARL	TRANSISTOR	[M]
Q8331	2SB1218ARL	TRANSISTOR	[M]
Q8335	2SB1218ARL	TRANSISTOR	[M]
Q8341	2SB1218ARL	TRANSISTOR	[M]
Q8551	2SD1819A0L	TRANSISTOR	[M]
Q8552	B1ADGB000008	TRANSISTOR	[M]
Q8561	2SD1819A0L	TRANSISTOR	[M]
Q8562	B1ADGB000008	TRANSISTOR	[M]
Q9500	B1AAGC000007	TRANSISTOR	[M]
Q9501	2SD21370PA	TRANSISTOR	[M]
Q9502	B1AAGC000007	TRANSISTOR	[M]
Q9503	2SB0621AHA	TRANSISTOR	[M]
Q9504	B1ACKD000004	TRANSISTOR	[M]
QR8111	XP0621400L	CHIP TRANSISTOR	[M]
QR8420	UNR521100L	CHIP TRANSISTOR	[M]
QR8571	UNR511V00L	CHIP TRANSISTOR	[M]
		DIODES	
D1	B0CBAD000004	DIODE	[M]
D2	B0CBAD000004	DIODE	[M]
D3	B0CBAD000004	DIODE	[M]
D951	MA2C16500E	DIODE	[M]
D971	MA2C16500E	DIODE	[M]
D1003	B0ACCK000005	DIODE	[M]
D2601	B0BC5R000009	DIODE	[M]
D2602	B0CDBB000015	DIODE	[M]
D2809	B0ACCK000005	DIODE	[M]
D2810	B0EAKM000117	DIODE	[M]
D2811	B0EAKM000117	DIODE	[M]
D2818	B0ACCK000005	DIODE	[M]
D2836	B0EAKM000117	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D2837	B0EAKM000117	DIODE	[M]
D2900	B0BC5R000009	DIODE	[M]
D2901	B0ACCK000005	DIODE	[M]
D2905	B0ACCK000005	DIODE	[M]
D2906	B0ACCK000005	DIODE	[M]
D2908	B0ACCK000005	DIODE	[M]
D2909	B0ACCK000005	DIODE	[M]
D2910	B0ACCE000003	DIODE	[M]
D2911	B0ACCK000005	DIODE	[M]
D2912	B0ACCK000005	DIODE	[M]
D2913	B0ADCJ000020	DIODE	[M]
D2914	B0ACCK000005	DIODE	[M]
D2915	B0ACCK000005	DIODE	[M]
D2916	B0ACCK000005	DIODE	[M]
D2917	B0ACCK000005	DIODE	[M]
D2918	B0ACCK000005	DIODE	[M]
D2919	B0ACCK000005	DIODE	[M]
D5801	B0BC010A0007	DIODE	[M]
D5803	B0BC01600013	DIODE	[M]
D5804	B0ACCK000005	DIODE	[M]
D5805	B0EAKM000117	DIODE	[M]
D5806	B0EAKM000117	DIODE	[M]
D5809	B0ACCK000005	DIODE	[M]
D5810	B0BC01000014	DIODE	[M]
D5820	B0BC01500006	DIODE	[M]
D5821	B0BC5R600003	DIODE	[M]
D6800	B0BC5R600003	DIODE	[M]
D6801	B3AAA0000583	DIODE	[M]
D6802	B0ACCE000003	DIODE	[M]
D6809	B3AEA0000041	DIODE	[M]
D6810	B3AEA0000041	DIODE	[M]
D6812	B0BC8R100004	DIODE	[M]
D6813	B0BC8R100004	DIODE	[M]
D6815	MAZ80560ML	DIODE	[M]
D8211	MA2J11100L	DIODE	[M]
D8571	MA2J72800L	DIODE	[M]
D9500	B0AACK000004	DIODE	[M]
D9501	B0AACK000004	DIODE	[M]
D9502	B0BA7R000005	DIODE	[M]
D9503	B0JAPG000019	DIODE	[M]
D9504	B0FBAM000009	DIODE	[M]
D9505	B0FBAM000009	DIODE	[M]
D9508	B0EAKM000125	DIODE	[M]
D9509	B0EAKM000125	DIODE	[M]
D9510	B0AACK000004	DIODE	[M]
D9511	B0EAKM000125	DIODE	[M]
D9512	B0EAKM000125	DIODE	[M]
D9513	B0EAKM000126	DIODE	[M]
D9514	B0EAKM000126	DIODE	[M]
D9515	B0BA7R000005	DIODE	[M]
D9516	B0BA03100002	DIODE	[M]
D9517	B0EAKM000125	DIODE	[M]
D9518	B0EAMM000038	DIODE	[M]
D9519	B0EAMM000038	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D9520	B0EAMM000038	DIODE	[M]
D9521	B0EAMM000038	DIODE	[M]
D9522	B0EAKM000126	DIODE	[M]
D9523	B0EAKM000126	DIODE	[M]
D9524	B0EAKM000126	DIODE	[M]
D9525	B0EAKM000126	DIODE	[M]
D9526	B0EAKM000126	DIODE	[M]
D9527	B0EAKM000126	DIODE	[M]
D9528	B0EAKM000126	DIODE	[M]
D9529	B0EAKM000126	DIODE	[M]
		INDUCTORS	
LB8001	J0JHC0000045	CHIP INDUCTOR	[M]
LB8011	J0JHC0000045	CHIP INDUCTOR	[M]
LB8257	ERJ3GEY0R00V	CHIP JUMPER	[M]
LB8258	ERJ3GEY0R00V	CHIP JUMPER	[M]
LB8259	ERJ3GEY0R00V	CHIP JUMPER	[M]
LB8260	ERJ3GEY0R00V	CHIP JUMPER	[M]
LB8301	J0JBC0000042	CHIP BEAD	[M]
LB8302	J0JBC0000042	CHIP BEAD	[M]
LB8303	J0JBC0000042	CHIP BEAD	[M]
LB8304	J0JBC0000042	CHIP BEAD	[M]
LB8305	J0JBC0000042	CHIP BEAD	[M]
LB8401	J0JBC0000042	CHIP BEAD	[M]
LB8421	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8422	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8423	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8424	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8425	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8426	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8427	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8428	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8429	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8430	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8491	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8530	J0JHC0000045	CHIP INDUCTOR	[M]
LB8531	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8551	J0JBC0000042	CHIP BEAD	[M]
LB8561	J0JBC0000042	CHIP BEAD	[M]
LB8571	J0JBC0000042	CHIP BEAD	[M]
LB8690	J0JBC0000044	HIGH LOSS INDUCTOR	[M]
LB8691	ERJ2GEJ101X	CHIP RESISTOR	[M]
LB8692	ERJ2GEJ101X	CHIP RESISTOR	[M]
LB8693	ERJ2GEJ101X	CHIP RESISTOR	[M]
		VARIABLE RESISTOR	
VR6800	EVEHE1F3512M	VR VOLUME JOG	[M]
		SWITCHES	
S1	K0L1BA000065	SW STOCK	[M]
S2	K0L1BA000065	SW STOCK	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
S3	K0L1BA000078	SW BOTTOM	[M]
S4	RSH1A045-1A	SW OPEN	[M]
S5	K0L1BA000065	SW CHANGE	[M]
S951	K0J1BB000017	SW MODE	[M]
S952	K0J1BB000021	SW HALF	[M]
S971	K0J1BB000017	SW MODE	[M]
S972	K0J1BB000021	SW HALF	[M]
S974	K0J1BB000021	SW RECINH_R	[M]
S975	K0J1BB000021	SW RECINH_F	[M]
S6800	K0H1BA000502	SW DVD/CD	[M]
S6801	K0H1BA000502	SW TAPE	[M]
S6802	K0H1BA000502	SW TUNER/BAND	[M]
S6803	K0H1BA000502	SW AUX	[M]
S6804	K0H1BA000502	SW DECK 1	[M]
S6805	K0H1BA000502	SW DISPLAY/DEMO	[M]
S6806	K0H1BA000502	SW DECK 2	[M]
S6807	K0H1BA000502	SW REW	[M]
S6808	K0H1BA000502	SW FF	[M]
S6809	K0H1BA000502	SW STOP	[M]
S6810	K0H1BA000502	SW AC IN	[M]
S6811	K0H1BA000502	SW DISC CHECK	[M]
S6812	K0H1BA000502	SW MULTI RE-MASTER	[M]
S6813	K0H1BA000502	SW SUPER SURROUND	[M]
S6814	K0H1BA000502	SW MIC UP	[M]
S6815	K0H1BA000502	SW MIC DOWN	[M]
S6816	K0H1BA000502	SW DECK 1/2	[M]
S6817	K0H1BA000502	SW REC	[M]
S6818	K0H1BA000502	SW SOUND EQ	[M]
S6819	K0H1BA000502	SW OPEN/CLOSE	[M]
S6820	K0H1BA000502	SW DISC CHANGE	[M]
S6821	K0H1BA000502	SW DISC 5	[M]
S6822	K0H1BA000502	SW DISC 4	[M]
S6823	K0H1BA000502	SW DISC 3	[M]
S6824	K0H1BA000502	SW DISC 2	[M]
S6825	K0H1BA000502	SW DISC 1	[M]
S6826	K0H1BA000502	SW SUPER SOUND EQ	[M]
S6827	K0H1BA000502	SW SUBWOOFER	[M]
		CONNECTORS	
CN1	K1MN14B00066	14P FFC CONNECTOR	[M]
CN971	K1MN10B00104	10P FFC CONNECTOR	[M]
CN1001	K1MN14B00058	14P CONNECTOR	[M]
CN2801	K1KB12B00036	12P CONNECTOR	[M]
CN2802	K1KB12B00036	12P CONNECTOR	[M]
CN2808	K1KA06A00308	6P CONNECTOR	[M]
CN2810	K1MN14BA0004	14P CONNECTOR	[M]
CN2811	K1MN30A00046	30P FFC CONNECTOR	[M]
CN2813	K1MN50A00008	50P CONNECTORS	[M]
CN2814	K1KA03AA0301	3P CONNECTOR	[M]
CN2815	K1KA02AA0186	2P CONNECTOR	[M]
CN2816	K1KA02AA0186	2P CONNECTOR	[M]
CN5800	K1KA12AA0424	12P CONNECTOR	[M]
CN5801	K1KA12AA0424	12P CONNECTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
CN5802	K1KA02A00375	LOADING MOTOR WIRE	[M]
CN5804	K1KA15AA0319	15P CONNECTOR	[M]
CN6811	K1MN30BA0167	30P CONNECTOR	[M]
CN9500	K1KA07A00184	7P CONNECTOR	[M]
CP6800	K1MN10B00104	10P FFC CONNECTOR	[M]
CP6803	K1MN14A00049	14P FFC CONNECTOR	[M]
CS1001	K1MN05A00039	5P CONNECTOR	[M]
CS1002	K1MN05A00039	5P CONNECTOR	[M]
FP8101	K1MN50B00031	50P CONNECTOR	[M]
FP8251	K1MN06B00080	6P CONNECTOR	[M]
FP8531	K1MN26B00094	26P CONNECTOR	[M]
		CERAMIC FILTERS	
CF2601	J0B1075AA014	FM CERAMIC FILTER	[M]
CF2602	J0B1075AA014	FM CERAMIC FILTER	[M]
		COILS & TRANSFORMERS	
L1	G0C1R2KA0029	AXIAL COIL	[M]
L2	G0CR47KA0029	AXIAL COIL	[M]
L1001	G0C470JA0052	RF CHOKE COIL	[M]
L1002	7L1A62N	BIAS OSC COIL	[M]
L2601	G2A411C00001	AM COIL	[M]
L2602	G2BPC0000016	OSCILLATOR COIL	[M]
L2802	ERJ3GEY0R00V	CHIP JUMPER	[M]
L2804	G0C101JA0052	INDUCTOR	[M]
L2806	J0JBC0000041	CHIP INDUCTOR	[M]
L2807	J0JBC0000041	CHIP INDUCTOR	[M]
L2808	J0JBC0000019	CHIP INDUCTOR	[M]
L2809	J0JBC0000041	CHIP INDUCTOR	[M]
L2810	J0JBC0000041	CHIP INDUCTOR	[M]
L2811	J0JCC0000120	CHIP INDUCTOR	[M]
L2812	J0JCC0000120	CHIP INDUCTOR	[M]
L2813	J0JCC0000120	CHIP INDUCTOR	[M]
L2814	J0JCC0000120	CHIP INDUCTOR	[M]
L2815	J0JCC0000120	CHIP INDUCTOR	[M]
L2816	J0JCC0000120	CHIP INDUCTOR	[M]
L2904	G0A200D00002	COIL	[M]
L2905	G0A200D00002	COIL	[M]
L2906	G0A200D00002	COIL	[M]
L5404	G0AR76Y00001	CHOKE COIL	[M]
L5405	G0AR76Y00001	CHOKE COIL	[M]
L5406	G0AR76Y00001	CHOKE COIL	[M]
L6801	G0C101JA0052	INDUCTOR	[M]
L6802	G0C101JA0052	INDUCTOR	[M]
L6803	G0C101JA0052	INDUCTOR	[M]
L6804	G0C100JA0052	INDUCTOR	[M]
L6805	G0C100JA0052	INDUCTOR	[M]
L6806	G0C3R3JA0052	COIL	[M]
L6808	G0C100JA0052	INDUCTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
L6809	G0C100JA0052	INDUCTOR	[M]
L8201	G1C100K00019	CHIP COIL	[M]
L8301	G1C100K00019	CHIP COIL	[M]
L8302	G1C100K00019	CHIP COIL	[M]
L8330	G1C100K00019	CHIP COIL	[M]
L8501	G1C100K00019	CHIP COIL	[M]
L8550	G1C100KA0055	CHIP INDUCTOR	[M]
L9500	G0ZZ00001930	COIL	[M]
L9501	G0B371HA0005	LINE FILTER	[M] ⚠
L9502	G0AR76Y00001	CHOKE COIL	[M]
L9504	G0AR76Y00001	CHOKE COIL	[M]
L9507	G0AR76Y00001	CHOKE COIL	[M]
T9500	G4C8AGK00003	TRANSFORMER	[M] ⚠
T9501	G4C2AAJ00005	BACK-UP TRANSFORMER	[M] ⚠
		COMPONENT COMBINATION	
Z971	RGSD12A1445T	RADA RESISTOR	[M]
Z2602	G2BAD0000003	AM IFT	[M]
Z6800	B3RAB0000025	REMOTE SENSOR	[M]
Z9500	ERZV10V511CS	ZENER	[M] ⚠
BS6800	RMBX0032	GROUND SPRING	[M]
		RELAY	
RL9500	K6B1AEA00015	POWER RELAY	[M] ⚠
		OSCILLATORS	
X2602	H3F1065A0002	DISCRIMINATOR	[M]
X2603	H0H720400005	CRYSTAL OSCILLATOR	[M]
X6800	H2A1005A0005	10MHZ RESONATOR	[M]
X6801	H0A327200115	CRYSTAL OSCILLATOR	[M]
X8621	H0J270500085	CRYSTAL OSCILLATOR	[M]
		DISPLAY TUBES	
FL6800	A2BD00000125	FL DISPLAY	[M]
FL8101	F1H0J1050022	CHIP CAPACITOR	[M]
FL8102	F1H0J1050022	CHIP CAPACITOR	[M]
FL8103	F1H0J1050022	CHIP CAPACITOR	[M]
FL8104	F1J1E1040022	CHIP CAPACITOR	[M]
		FUSE	
F1	K5D202BLA013	FUSE 2.0A	[M] ⚠
		FUSE HOLDERS	
FC1	K3GE1BA00021	FUSE CLIP	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
FC2	K3GE1BA00021	FUSE CLIP	[M]
		FUSE PROTECTORS	
FP5833	K5G401A00008	FUSE PROTECTOR	[M] ⚠
FP9500	K5G102A00023	FUSE PROTECTOR	[M] ⚠
FP9501	K5G402A00025	FUSE PROTECTOR	[M] ⚠
FP9502	K5G402A00025	FUSE PROTECTOR	[M] ⚠
FP9503	K5G402A00025	FUSE PROTECTOR	[M] ⚠
		HOLDERS	
H5803	K1YF10000006	10P WIRE HOLDER	[M]
H5804	K1YF11000004	11P WIRE HOLDER	[M]
H5900	K1YF11000004	11P WIRE HOLDER	[M]
H5901	K1YF10000006	10P WIRE HOLDER	[M]
H6800	RMR0316	7P WIRE HOLDER	[M]
H6805	K1YF05000001	5P CABLE HOLDER	[M]
H6806	K1YF05000001	5P CABLE HOLDER	[M]
H6807	K1YF06000001	6P CONNECTOR	[M]
H6810	K1YZ02000015	2P WIRE HOLDER	[M]
H9500	K1YF15000004	15P WIRE HOLDER	[M]
H9502	REXX0481	3P WIRE HOLDER AND 2P WIRE (W9502)	[M]
		JACKS	
JK2601	K4BC03A00008	JK ANETENNA	[M]
JK2801	K1CB105B0039	JK S-VIDEO	[M]
JK2802	K2HA408B0061	JK COMP/VIDEO	[M]
JK2803	K2HA204B0166	JK PIN RCA	[M]
JK6800	K2HB102J0038	JK	[M]
JK6801	K2HC103A0024	JK SMALL SIGN	[M]
JK6802	K2HB102J0038	JK	[M]
JK9500	K2AA2B000011	JK AC INLET	[M] ⚠
JK9502	K4BC06B00063	JK 6P SPEAKER	[M]
JK9503	K4BC06B00049	JK SPEAKER	[M]
		EARTH TERMINAL	
E5801	SNE1004-3	EARTH TERMINAL	[M]
		WIRES	
W1	REU13W125XX	WIRE	[M]
W1002	RWJ0102050CK	MOTOR WIRE (MAIN-MECHA)	[M]
		CHIP JUMPER	
W2087	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2090	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2091	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2094	ERJ3GEY0R00V	CHIP JUMPER	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
W2095	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2096	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2099	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2101	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2103	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2104	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2125	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2126	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2127	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2128	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2130	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2131	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2132	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2133	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2919	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2999	ERJ3GEY0R00V	CHIP JUMPER	[M]
W3002	ERJ3GEY0R00V	CHIP JUMPER	[M]
W3003	ERJ3GEY0R00V	CHIP JUMPER	[M]
W3004	ERJ3GEY0R00V	CHIP JUMPER	[M]
W3005	ERJ3GEY0R00V	CHIP JUMPER	[M]
W3006	ERJ3GEY0R00V	CHIP JUMPER	[M]
W3007	ERJ3GEY0R00V	CHIP JUMPER	[M]
W3008	ERJ3GEY0R00V	CHIP JUMPER	[M]
W3009	ERJ3GEY0R00V	CHIP JUMPER	[M]
W3011	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6810	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6830	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6882	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6886	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6887	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6888	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6889	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6890	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6891	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6901	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6902	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6906	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6907	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6908	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6915	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6916	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6919	ERJ3GEY0R00V	CHIP JUMPER	[M]
D6814	ERJ3GEY0R00V	DIODE	[M]
		RESISTORS	
R1	ERDS2TJ104T	100K 1/4W	[M]
R2	ERDS2TJ104T	100K 1/4W	[M]
R3	ERDS2TJ221T	220 1/4W	[M]
R4	ERDS2TJ104T	100K 1/4W	[M]
R5	ERDS2TJ564T	560K 1/4W	[M]
R6	ERDS2TJ391T	390 1/4W	[M]
R7	ERDS2TJ272T	2.7K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R8	ERDS2TJ684T	680K 1/4W	[M]
R9	ERDS2TJ391T	390 1/4W	[M]
R10	ERDS2TJ391T	390 1/4W	[M]
R11	ERDS2TJ684T	680K 1/4W	[M]
R952	ERDS2TJ821T	820 1/4W	[M]
R953	ERDS2TJ393T	39K 1/4W	[M]
R972	ERDS2TJ821T	820 1/4W	[M]
R973	ERDS2TJ393T	39K 1/4W	[M]
R1002	ERJ3GEY0R00V	0 1/16W	[M]
R1003	ERJ3GEYJ103V	10K 1/16W	[M]
R1004	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1005	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1007	ERD25FVJ4R7T	4.7 1/4W	[M]
R1009	ERJ3GEYJ183V	18K 1/16W	[M]
R1010	ERJ3GEYJ183V	18K 1/16W	[M]
R1011	ERJ3GEYJ822V	8.2K 1/16W	[M]
R1012	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1013	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1014	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1015	ERJ3GEYJ470V	47 1/16W	[M]
R1016	ERJ3GEYJ470V	47 1/16W	[M]
R1017	ERJ3GEYJ822V	8.2K 1/16W	[M]
R1018	ERJ3GEYJ392V	3.9K 1/16W	[M]
R1019	ERJ3GEYJ392V	3.9K 1/16W	[M]
R1020	ERJ3GEY0R00V	0 1/16W	[M]
R1022	ERJ3GEYJ103V	10K 1/16W	[M]
R1024	ERJ3GEY0R00V	0 1/16W	[M]
R1025	ERJ3GEY0R00V	0 1/16W	[M]
R1026	ERJ3GEYJ102V	1K 1/16W	[M]
R1027	ERJ3GEY0R00V	0 1/16W	[M]
R1028	ERJ3GEYJ822V	8.2K 1/16W	[M]
R1029	ERJ3GEYJ475V	4.7M 1/16W	[M]
R1030	ERJ3GEYJ101V	100 1/16W	[M]
R1031	ERJ3GEYJ273V	27K 1/16W	[M]
R1032	ERJ3GEYJ103V	10K 1/16W	[M]
R1035	ERJ3GEYJ103V	10K 1/16W	[M]
R1040	ERJ3GEY0R00V	0 1/16W	[M]
R1049	ERJ3GEY0R00V	0 1/16W	[M]
R1050	ERJ3GEY0R00V	0 1/16W	[M]
R1055	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1057	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1060	ERJ3GEYJ391V	390 1/16W	[M]
R1084	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1085	ERJ3GEYJ473V	47K 1/16W	[M]
R1086	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1087	ERJ3GEYJ473V	47K 1/16W	[M]
R1090	ERJ3GEYJ221V	220 1/16W	[M]
R1091	ERJ3GEY0R00V	0 1/16W	[M]
R1092	ERJ3GEY0R00V	0 1/16W	[M]
R1097	ERJ3GEYJ103V	10K 1/16W	[M]
R1098	ERJ3GEYJ103V	10K 1/16W	[M]
R1099	ERJ3GEY0R00V	0 1/16W	[M]
R1100	ERJ3GEY0R00V	0 1/16W	[M]
R1101	ERJ3GEY0R00V	0 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1102	ERJ3GEYJ103V	10K 1/16W	[M]
R2052	ERJ3GEY0R00V	0 1/16W	[M]
R2053	ERJ3GEY0R00V	0 1/16W	[M]
R2054	ERJ3GEY0R00V	0 1/16W	[M]
R2055	ERJ3GEY0R00V	0 1/16W	[M]
R2056	ERJ3GEY0R00V	0 1/16W	[M]
R2057	ERJ3GEY0R00V	0 1/16W	[M]
R2058	ERJ3GEY0R00V	0 1/16W	[M]
R2059	ERJ3GEY0R00V	0 1/16W	[M]
R2060	ERJ3GEY0R00V	0 1/16W	[M]
R2061	ERJ3GEY0R00V	0 1/16W	[M]
R2062	ERJ3GEY0R00V	0 1/16W	[M]
R2064	ERJ3GEY0R00V	0 1/16W	[M]
R2065	ERJ3GEY0R00V	0 1/16W	[M]
R2066	ERJ3GEY0R00V	0 1/16W	[M]
R2067	ERJ3GEY0R00V	0 1/16W	[M]
R2068	ERJ3GEY0R00V	0 1/16W	[M]
R2069	ERJ3GEY0R00V	0 1/16W	[M]
R2070	ERJ3GEY0R00V	0 1/16W	[M]
R2072	ERJ3GEY0R00V	0 1/16W	[M]
R2073	ERJ3GEY0R00V	0 1/16W	[M]
R2074	ERJ3GEY0R00V	0 1/16W	[M]
R2075	ERJ3GEY0R00V	0 1/16W	[M]
R2076	ERJ3GEY0R00V	0 1/16W	[M]
R2077	ERJ3GEY0R00V	0 1/16W	[M]
R2078	ERJ3GEY0R00V	0 1/16W	[M]
R2079	ERJ3GEY0R00V	0 1/16W	[M]
R2080	ERJ3GEY0R00V	0 1/16W	[M]
R2081	ERJ3GEY0R00V	0 1/16W	[M]
R2084	ERJ3GEY0R00V	0 1/16W	[M]
R2086	ERJ3GEY0R00V	0 1/16W	[M]
R2088	ERJ3GEY0R00V	0 1/16W	[M]
R2089	ERJ3GEY0R00V	0 1/16W	[M]
R2090	ERJ3GEY0R00V	0 1/16W	[M]
R2091	ERJ3GEY0R00V	0 1/16W	[M]
R2094	ERJ3GEY0R00V	0 1/16W	[M]
R2095	ERJ3GEY0R00V	0 1/16W	[M]
R2096	ERJ3GEY0R00V	0 1/16W	[M]
R2097	ERJ3GEY0R00V	0 1/16W	[M]
R2098	ERJ3GEY0R00V	0 1/16W	[M]
R2100	ERJ3GEYJ183V	18K 1/16W	[M]
R2101	ERJ3GEYJ183V	18K 1/16W	[M]
R2102	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2103	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2104	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2105	ERJ3GEYJ183V	18K 1/16W	[M]
R2106	ERJ3GEYJ102V	1K 1/16W	[M]
R2107	ERJ3GEYJ473V	47K 1/16W	[M]
R2108	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2109	ERJ3GEYJ123V	12K 1/16W	[M]
R2110	ERJ3GEYJ104V	100K 1/16W	[M]
R2111	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2112	ERJ3GEYJ104V	100K 1/16W	[M]
R2113	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2114	ERJ3GEYJ473V	47K 1/16W	[M]
R2115	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2116	ERJ3GEYJ223V	22K 1/16W	[M]
R2117	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2118	ERJ3GEYJ102V	1K 1/16W	[M]
R2119	ERJ3GEYJ224V	220K 1/16W	[M]
R2120	ERJ3GEYJ102V	1K 1/16W	[M]
R2121	ERJ3GEYJ273V	27K 1/16W	[M]
R2122	ERJ3GEYJ683V	68K 1/16W	[M]
R2124	ERJ3GEYJ123V	12K 1/16W	[M]
R2126	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2127	ERJ3GEYJ153V	15K 1/16W	[M]
R2128	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2129	ERJ3GEYJ101V	100 1/16W	[M]
R2130	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2131	ERJ3GEYJ333V	33K 1/16W	[M]
R2132	ERJ3GEYJ471V	470 1/16W	[M]
R2133	ERJ3GEY0R00V	0 1/16W	[M]
R2135	ERJ3GEYJ273V	27K 1/16W	[M]
R2136	ERJ3GEYJ273V	27K 1/16W	[M]
R2137	ERJ3GEYJ101V	100 1/16W	[M]
R2138	ERJ3GEYJ333V	33K 1/16W	[M]
R2139	ERJ3GEYJ123V	12K 1/16W	[M]
R2154	ERJ3GEYJ334V	330K 1/16W	[M]
R2155	ERJ3GEYJ123V	12K 1/16W	[M]
R2162	ERJ3GEY0R00V	0 1/16W	[M]
R2200	ERJ3GEYJ183V	18K 1/16W	[M]
R2201	ERJ3GEYJ183V	18K 1/16W	[M]
R2202	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2203	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2204	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2205	ERJ3GEYJ183V	18K 1/16W	[M]
R2206	ERJ3GEYJ102V	1K 1/16W	[M]
R2207	ERJ3GEYJ473V	47K 1/16W	[M]
R2208	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2209	ERJ3GEYJ123V	12K 1/16W	[M]
R2210	ERJ3GEYJ104V	100K 1/16W	[M]
R2211	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2212	ERJ3GEYJ104V	100K 1/16W	[M]
R2213	ERJ3GEYJ103V	10K 1/16W	[M]
R2214	ERJ3GEYJ473V	47K 1/16W	[M]
R2215	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2216	ERJ3GEYJ223V	22K 1/16W	[M]
R2217	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2218	ERJ3GEYJ102V	1K 1/16W	[M]
R2219	ERJ3GEYJ224V	220K 1/16W	[M]
R2220	ERJ3GEYJ102V	1K 1/16W	[M]
R2221	ERJ3GEYJ273V	27K 1/16W	[M]
R2222	ERJ3GEYJ683V	68K 1/16W	[M]
R2223	ERJ3GEYJ473V	47K 1/16W	[M]
R2224	ERJ3GEYJ123V	12K 1/16W	[M]
R2226	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2227	ERJ3GEYJ153V	15K 1/16W	[M]
R2228	ERJ3GEYJ332V	3.3K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2229	ERJ3GEYJ101V	100 1/16W	[M]
R2230	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2231	ERJ3GEYJ333V	33K 1/16W	[M]
R2232	ERJ3GEYJ471V	470 1/16W	[M]
R2233	ERJ3GEY0R00V	0 1/16W	[M]
R2235	ERJ3GEYJ562V	5.6K 1/16W	[M]
R2236	ERJ3GEYJ562V	5.6K 1/16W	[M]
R2237	ERJ3GEYJ101V	100 1/16W	[M]
R2238	ERJ3GEYJ333V	33K 1/16W	[M]
R2239	ERJ3GEYJ123V	12K 1/16W	[M]
R2253	ERJ3GEYJ334V	330K 1/16W	[M]
R2254	ERJ3GEYJ123V	12K 1/16W	[M]
R2300	ERJ3GEYJ123V	12K 1/16W	[M]
R2301	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2302	ERJ3GEYJ103V	10K 1/16W	[M]
R2303	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2304	ERJ3GEYJ473V	47K 1/16W	[M]
R2305	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2306	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2307	ERJ3GEYJ563V	56K 1/16W	[M]
R2310	ERJ3GEYJ271V	270 1/16W	[M]
R2400	ERJ3GEYJ123V	12K 1/16W	[M]
R2401	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2404	ERJ3GEYJ473V	47K 1/16W	[M]
R2405	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2406	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2407	ERJ3GEYJ563V	56K 1/16W	[M]
R2410	ERJ3GEYJ271V	270 1/16W	[M]
R2453	ERJ3GEYJ101V	100 1/16W	[M]
R2454	ERJ3GEYJ104V	100K 1/16W	[M]
R2455	ERJ3GEYJ102V	1K 1/16W	[M]
R2456	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2457	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2459	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2460	ERJ3GEYJ225V	2.2M 1/16W	[M]
R2500	ERJ3GEYJ123V	12K 1/16W	[M]
R2501	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2502	ERJ3GEYJ103V	10K 1/16W	[M]
R2503	ERJ3GEYJ102V	1K 1/16W	[M]
R2504	ERJ3GEYJ333V	33K 1/16W	[M]
R2505	ERJ3GEYJ103V	10K 1/16W	[M]
R2506	ERJ3GEYJ271V	270 1/16W	[M]
R2507	ERJ3GEYJ102V	1K 1/16W	[M]
R2508	ERJ3GEYJ563V	56K 1/16W	[M]
R2509	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2510	ERJ3GEYJ183V	18K 1/16W	[M]
R2511	ERJ3GEYJ102V	1K 1/16W	[M]
R2558	ERJ3GEYJ473V	47K 1/16W	[M]
R2567	ERJ3GEYJ393V	39K 1/16W	[M]
R2568	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2569	ERJ3GEYJ153V	15K 1/16W	[M]
R2580	ERDS1FVJ100T	10 1/2W	[M]
R2581	ERJ3GEYJ122V	1.2K 1/16W	[M]
R2582	ERJ3GEYJ104V	100K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2583	ERJ3GEYJ224V	220K 1/16W	[M]
R2584	ERJ3GEYJ101V	100 1/16W	[M]
R2585	ERJ3GEYJ124V	120K 1/16W	[M]
R2586	ERJ3GEYJ103V	10K 1/16W	[M]
R2587	ERJ3GEYJ225V	2.2M 1/16W	[M]
R2588	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2589	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2590	ERJ3GEY0R00V	0 1/16W	[M]
R2591	ERJ3GEYJ102V	1K 1/16W	[M]
R2592	ERJ3GEYJ104V	100K 1/16W	[M]
R2593	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2594	ERDS1FVJ100T	10 1/2W	[M]
R2595	ERJ3GEYJ104V	100K 1/16W	[M]
R2596	ERJ3GEYJ122V	1.2K 1/16W	[M]
R2597	ERJ3GEYJ224V	220K 1/16W	[M]
R2598	ERJ3GEYJ103V	10K 1/16W	[M]
R2599	ERJ3GEYJ124V	120K 1/16W	[M]
R2600	ERJ3GEYJ103V	10K 1/16W	[M]
R2601	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2602	ERJ3GEYJ103V	10K 1/16W	[M]
R2603	ERJ3GEYJ103V	10K 1/16W	[M]
R2604	ERJ3GEYJ333V	33K 1/16W	[M]
R2605	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2606	ERJ3GEYJ103V	10K 1/16W	[M]
R2607	ERJ3GEYJ392V	3.9K 1/16W	[M]
R2608	ERJ3GEYJ153V	15K 1/16W	[M]
R2609	ERJ3GEYJ224V	220K 1/16W	[M]
R2610	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2611	ERJ3GEYJ104V	100K 1/16W	[M]
R2612	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2613	ERJ3GEYJ683V	68K 1/16W	[M]
R2614	ERJ3GEYJ683V	68K 1/16W	[M]
R2615	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2616	ERJ3GEYJ563V	56K 1/16W	[M]
R2618	ERJ3GEYJ102V	1K 1/16W	[M]
R2619	ERJ3GEYJ563V	56K 1/16W	[M]
R2620	ERJ3GEYJ563V	56K 1/16W	[M]
R2621	ERJ3GEYJ223V	22K 1/16W	[M]
R2622	ERJ3GEYJ392V	3.9K 1/16W	[M]
R2623	ERJ3GEYJ273V	27K 1/16W	[M]
R2624	ERJ3GEYJ561V	560 1/16W	[M]
R2626	ERJ3GEYJ102V	1K 1/16W	[M]
R2627	ERJ3GEYJ471V	470 1/16W	[M]
R2628	ERJ3GEYJ820V	82 1/16W	[M]
R2629	ERJ3GEYJ273V	27K 1/16W	[M]
R2630	ERJ3GEYJ103V	10K 1/16W	[M]
R2631	ERJ3GEYJ121V	120 1/16W	[M]
R2632	ERJ3GEYJ103V	10K 1/16W	[M]
R2633	ERJ3GEYJ102V	1K 1/16W	[M]
R2634	ERJ3GEYJ471V	470 1/16W	[M]
R2635	ERJ3GEYJ102V	1K 1/16W	[M]
R2636	ERJ3GEYJ102V	1K 1/16W	[M]
R2637	ERJ3GEYJ102V	1K 1/16W	[M]
R2638	ERJ3GEYJ332V	3.3K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2641	**ERJ3GEYJ682V**	**6.8K 1/16W**	**[M]**
R2642	**ERJ3GEYJ682V**	**6.8K 1/16W**	**[M]**
R2643	**ERJ3GEYJ223V**	**22K 1/16W**	**[M]**
R2644	**ERJ3GEYJ121V**	**120 1/16W**	**[M]**
R2645	**ERJ3GEYJ562V**	**5.6K 1/16W**	**[M]**
R2646	**ERJ3GEYJ562V**	**5.6K 1/16W**	**[M]**
R2651	**ERJ3GEYJ820V**	**82 1/16W**	**[M]**
R2652	**ERJ3GEY0R00V**	**0 1/16W**	**[M]**
R2658	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R2661	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R2662	**ERJ3GEYJ472V**	**4.7K 1/16W**	**[M]**
R2667	**ERJ3GEYJ223V**	**22K 1/16W**	**[M]**
R2670	**ERJ3GEYJ223V**	**22K 1/16W**	**[M]**
R2672	**ERJ3GEYJ101V**	**100 1/16W**	**[M]**
R2673	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R2675	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R2678	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R2683	**ERJ3GEYJ104V**	**100K 1/16W**	**[M]**
R2684	**ERJ3GEYJ104V**	**100K 1/16W**	**[M]**
R2687	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R2691	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R2692	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R2693	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R2702	**ERJ3GEY0R00V**	**0 1/16W**	**[M]**
R2708	**ERJ3GEYJ101V**	**100 1/16W**	**[M]**
R2713	**ERJ3GEY0R00V**	**0 1/16W**	**[M]**
R2723	**ERJ3GEYJ153V**	**15K 1/16W**	**[M]**
R2726	**ERJ3GEYJ101V**	**100 1/16W**	**[M]**
R2728	**ERJ3GEYJ223V**	**22K 1/16W**	**[M]**
R2729	**ERJ3GEYJ223V**	**22K 1/16W**	**[M]**
R2730	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R2731	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R2732	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R2733	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R2734	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R2735	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R2736	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R2737	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R2738	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R2739	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R2740	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R2741	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R2742	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R2743	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R2744	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R2745	**ERJ3GEYJ223V**	**22K 1/16W**	**[M]**
R2746	**ERJ3GEYJ472V**	**4.7K 1/16W**	**[M]**
R2747	**ERJ3GEYJ472V**	**4.7K 1/16W**	**[M]**
R2748	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R2749	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R2750	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R2751	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R2752	**ERJ3GEYJ101V**	**100 1/16W**	**[M]**
R2753	**ERJ3GEYJ101V**	**100 1/16W**	**[M]**

Ref. No.	Part No.	Part Name & Description	Remarks
R2754	ERJ3GEYJ101V	100 1/16W	[M]
R2755	ERJ3GEYJ101V	100 1/16W	[M]
R2756	ERJ3GEYJ101V	100 1/16W	[M]
R2758	ERJ3GEYJ102V	1K 1/16W	[M]
R2759	ERJ3GEYJ102V	1K 1/16W	[M]
R2760	ERJ3GEYJ102V	1K 1/16W	[M]
R2761	ERJ3GEYJ102V	1K 1/16W	[M]
R2762	ERJ3GEYJ223V	22K 1/16W	[M]
R2774	ERJ3GEYJ102V	1K 1/16W	[M]
R2775	ERJ3GEYJ102V	1K 1/16W	[M]
R2776	ERJ3GEYJ102V	1K 1/16W	[M]
R2780	ERJ3GEYJ101V	100 1/16W	[M]
R2781	ERJ3GEYJ102V	1K 1/16W	[M]
R2782	ERJ3GEYJ102V	1K 1/16W	[M]
R2783	ERJ3GEYJ102V	1K 1/16W	[M]
R2784	ERJ3GEYJ101V	100 1/16W	[M]
R2785	ERJ3GEYJ101V	100 1/16W	[M]
R2786	ERJ3GEYJ102V	1K 1/16W	[M]
R2788	ERJ3GEYJ104V	100K 1/16W	[M]
R2789	ERJ3GEYJ101V	100 1/16W	[M]
R2790	ERJ3GEYJ102V	1K 1/16W	[M]
R2791	ERJ3GEYJ102V	1K 1/16W	[M]
R2792	ERJ3GEYJ102V	1K 1/16W	[M]
R2793	ERJ3GEYJ101V	100 1/16W	[M]
R2794	ERJ3GEYJ101V	100 1/16W	[M]
R2796	ERJ3GEYJ101V	100 1/16W	[M]
R2797	ERJ3GEYJ101V	100 1/16W	[M]
R2798	ERJ3GEYJ101V	100 1/16W	[M]
R2803	ERJ3GEYJ104V	100K 1/16W	[M]
R2807	ERJ3GEYJ104V	100K 1/16W	[M]
R2810	ERJ3GEYJ103V	10K 1/16W	[M]
R2814	ERJ3GEYJ471V	470 1/16W	[M]
R2816	ERJ3GEYJ750V	75 1/16W	[M]
R2817	ERJ3GEY0R00V	0 1/16W	[M]
R2818	ERJ3GEYJ561V	560 1/16W	[M]
R2820	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2822	ERJ3GEYJ750V	75 1/16W	[M]
R2823	ERJ3GEYJ750V	75 1/16W	[M]
R2824	ERJ3GEYJ750V	75 1/16W	[M]
R2825	ERJ3GEYJ750V	75 1/16W	[M]
R2826	ERJ3GEYJ750V	75 1/16W	[M]
R2827	ERJ3GEY0R00V	0 1/16W	[M]
R2828	ERJ3GEY0R00V	0 1/16W	[M]
R2829	ERJ3GEYJ102V	1K 1/16W	[M]
R2830	ERJ3GEYJ104V	100K 1/16W	[M]
R2831	ERJ3GEYJ104V	100K 1/16W	[M]
R2832	ERJ3GEYJ104V	100K 1/16W	[M]
R2834	ERJ3GEYJ104V	100K 1/16W	[M]
R2838	ERJ3GEYJ102V	1K 1/16W	[M]
R2839	ERJ3GEYJ102V	1K 1/16W	[M]
R2840	ERJ3GEYJ221V	220 1/16W	[M]
R2841	ERJ3GEYJ102V	1K 1/16W	[M]
R2842	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2846	ERJ3GEYJ563V	56K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2847	ERJ3GEYJ103V	10K 1/16W	[M]
R2848	ERJ3GEYJ102V	1K 1/16W	[M]
R2849	ERJ3GEYJ102V	1K 1/16W	[M]
R2850	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2851	ERJ3GEYJ102V	1K 1/16W	[M]
R2852	ERJ3GEYJ563V	56K 1/16W	[M]
R2853	ERJ3GEYJ563V	56K 1/16W	[M]
R2854	ERJ3GEYJ563V	56K 1/16W	[M]
R2855	ERJ3GEYJ563V	56K 1/16W	[M]
R2856	ERJ3GEYJ563V	56K 1/16W	[M]
R2857	ERJ3GEYJ563V	56K 1/16W	[M]
R2859	ERJ3GEY0R00V	0 1/16W	[M]
R2860	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2862	ERJ3GEY0R00V	0 1/16W	[M]
R2863	ERJ3GEY0R00V	0 1/16W	[M]
R2864	ERJ3GEY0R00V	0 1/16W	[M]
R2899	ERJ3GEY0R00V	0 1/16W	[M]
R2910	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2911	ERJ3GEYJ473V	47K 1/16W	[M]
R2912	ERJ3GEYJ473V	47K 1/16W	[M]
R2913	ERJ3GEYJ103V	10K 1/16W	[M]
R2914	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2916	ERJ3GEYJ681V	680 1/16W	[M]
R2917	ERJ3GEYJ106V	10M 1/16W	[M]
R2918	ERJ3GEYJ331V	330 1/16W	[M]
R2920	ERJ3GEYJ103V	10K 1/16W	[M]
R2921	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2922	ERJ3GEYJ223V	22K 1/16W	[M]
R2923	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2924	ERJ3GEYJ104V	100K 1/16W	[M]
R2926	ERJ3GEYJ101V	100 1/16W	[M]
R2935	ERJ3GEYJ153V	15K 1/16W	[M]
R2938	ERJ3GEYJ392V	3.9K 1/16W	[M]
R2939	ERJ3GEYJ562V	5.6K 1/16W	[M]
R2940	ERJ3GEYJ123V	12K 1/16W	[M]
R2941	ERJ3GEYJ103V	10K 1/16W	[M]
R2942	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2943	ERJ3GEYJ103V	10K 1/16W	[M]
R2944	ERJ3GEYJ153V	15K 1/16W	[M]
R2945	ERJ3GEY0R00V	0 1/16W	[M]
R2946	ERJ3GEYJ123V	12K 1/16W	[M]
R2947	ERJ3GEYJ100V	10 1/16W	[M]
R2948	ERJ3GEY0R00V	0 1/16W	[M]
R2949	ERJ3GEYJ103V	10K 1/16W	[M]
R2952	ERDS1FVJ680T	68 1/2W	[M]
R2955	ERJ3GEYJ221V	220 1/2W	[M]
R2956	ERJ3GEYJ221V	220 1/2W	[M]
R2957	ERJ3GEYJ681V	680 1/16W	[M]
R2958	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R2959	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R2969	ERDS1FVJ680T	68 1/2W	[M]
R2978	ERJ3GEY0R00V	0 1/16W	[M]
R2979	ERJ3GEY0R00V	0 1/16W	[M]
R2980	ERJ3GEY0R00V	0 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2981	ERJ3GEY0R00V	0 1/16W	[M]
R2982	ERJ3GEY0R00V	0 1/16W	[M]
R2983	ERJ3GEY0R00V	0 1/16W	[M]
R2984	ERJ3GEY0R00V	0 1/16W	[M]
R2985	ERJ3GEY0R00V	0 1/16W	[M]
R2986	ERJ3GEY0R00V	0 1/16W	[M]
R2987	ERJ3GEY0R00V	0 1/16W	[M]
R2988	ERJ3GEYJ102V	1K 1/16W	[M]
R2990	ERJ3GEYJ103V	10K 1/16W	[M]
R2998	ERJ3GEY0R00V	0 1/16W	[M]
R2999	ERJ3GEY0R00V	0 1/16W	[M]
R3601	ERJ3GEY0R00V	0 1/16W	[M]
R3602	ERJ3GEYJ472V	4.7K 1/16W	[M]
R3603	ERJ3GEYJ271V	270 1/16W	[M]
R3604	ERJ3GEYJ102V	1K 1/16W	[M]
R3605	ERJ3GEYJ471V	470 1/16W	[M]
R3606	ERJ3GEYJ474V	470K 1/16W	[M]
R3607	ERJ3GEYJ331V	330 1/16W	[M]
R3610	ERJ3GEYJ102V	1K 1/16W	[M]
R3611	ERJ3GEYJ391V	390 1/16W	[M]
R3612	ERJ3GEYJ104V	100K 1/16W	[M]
R3613	ERJ3GEYJ103V	10K 1/16W	[M]
R3614	ERJ3GEYJ562V	5.6K 1/16W	[M]
R3615	ERJ3GEYJ561V	560 1/16W	[M]
R3616	ERJ3GEYJ102V	1K 1/16W	[M]
R3617	ERJ3GEYJ473V	47K 1/16W	[M]
R3618	ERJ3GEYJ332V	3.3K 1/16W	[M]
R3619	ERJ3GEYJ332V	3.3K 1/16W	[M]
R3620	ERJ3GEYJ473V	47K 1/16W	[M]
R3622	ERJ3GEYJ272V	2.7K 1/16W	[M]
R3623	ERJ3GEYJ683V	68K 1/16W	[M]
R3624	ERJ3GEYJ330V	33 1/16W	[M]
R3625	ERJ3GEYJ471V	470 1/16W	[M]
R3626	ERJ3GEYJ102V	1K 1/16W	[M]
R3627	ERJ3GEYJ102V	1K 1/16W	[M]
R3628	ERJ3GEYJ563V	56K 1/16W	[M]
R3629	ERJ3GEYJ563V	56K 1/16W	[M]
R3630	ERJ3GEYJ332V	3.3K 1/16W	[M]
R3631	ERJ3GEYJ332V	3.3K 1/16W	[M]
R3632	ERJ3GEYJ103V	10K 1/16W	[M]
R3634	ERJ3GEYJ103V	10K 1/16W	[M]
R3637	ERJ3GEY0R00V	0 1/16W	[M]
R3638	ERJ3GEY0R00V	0 1/16W	[M]
R3639	ERJ3GEY0R00V	0 1/16W	[M]
R3640	ERJ3GEY0R00V	0 1/16W	[M]
R3641	ERJ3GEY0R00V	0 1/16W	[M]
R3642	ERJ3GEY0R00V	0 1/16W	[M]
R3644	ERJ3GEY0R00V	0 1/16W	[M]
R5100	ERJ3GEYJ153V	15K 1/16W	[M]
R5101	ERJ3GEYJ182V	1.8K 1/16W	[M]
R5102	ERJ3GEYJ563V	56K 1/16W	[M]
R5103	ERJ3GEYJ103V	10K 1/16W	[M]
R5104	ERJ3GEYJ224V	220K 1/16W	[M]
R5105	ERDS1FVJ100T	10 1/2W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R5106	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5107	ERJ3GEYJ122V	1.2K 1/16W	[M]
R5108	ERJ3GEYJ153V	15K 1/16W	[M]
R5200	ERJ3GEYJ153V	15K 1/16W	[M]
R5201	ERJ3GEYJ182V	1.8K 1/16W	[M]
R5202	ERJ3GEYJ563V	56K 1/16W	[M]
R5203	ERJ3GEYJ103V	10K 1/16W	[M]
R5204	ERJ3GEYJ224V	220K 1/16W	[M]
R5205	ERDS1FVJ100T	10 1/2W	[M]
R5206	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5207	ERJ3GEYJ122V	1.2K 1/16W	[M]
R5300	ERJ3GEYJ153V	15K 1/16W	[M]
R5301	ERJ3GEYJ682V	6.8K 1/16W	[M]
R5302	ERJ3GEYJ563V	56K 1/16W	[M]
R5303	ERDS1FVJ100T	10 1/2W	[M]
R5400	ERJ3GEYJ153V	15K 1/16W	[M]
R5401	ERJ3GEYJ682V	6.8K 1/16W	[M]
R5402	ERJ3GEYJ563V	56K 1/16W	[M]
R5403	ERDS1FVJ100T	10 1/2W	[M]
R5404	ERDS1FVJ100T	10 1/2W	[M]
R5405	ERDS1FVJ100T	10 1/2W	[M]
R5406	ERDS1FVJ100T	10 1/2W	[M]
R5500	ERJ3GEYJ153V	15K 1/16W	[M]
R5501	ERJ3GEYJ822V	8.2K 1/16W	[M]
R5502	ERJ3GEYJ563V	56K 1/16W	[M]
R5503	ERDS1FVJ100T	10 1/2W	[M]
R5504	ERJ3GEYJ104V	100K 1/16W	[M]
R5505	ERJ3GEYJ223V	22K 1/16W	[M]
R5507	ERJ3GEY0R00V	0 1/16W	[M]
R5606	ERDS1FVJ100T	10 1/2W	[M]
R5610	ERJ3GEYJ103V	10K 1/16W	[M]
R5611	ERJ3GEYJ224V	220K 1/16W	[M]
R5707	ERJ3GEYJ563V	56K 1/16W	[M]
R5708	ERJ3GEYJ182V	1.8K 1/16W	[M]
R5709	ERJ3GEYJ153V	15K 1/16W	[M]
R5809	ERDS1FVJ331T	330 1/2W	[M]
R5810	ERJ3GEYJ272V	2.7K 1/16W	[M]
R5811	ERJ3GEYJ471V	470 1/16W	[M]
R5812	ERJ3GEYJ272V	2.7K 1/16W	[M]
R5813	ERJ3GEYJ332V	3.3K 1/16W	[M]
R5814	ERJ3GEYJ332V	3.3K 1/16W	[M]
R5815	ERJ3GEYJ104V	100K 1/16W	[M]
R5816	ERJ3GEYJ104V	100K 1/16W	[M]
R5817	ERJ3GEYJ223V	22K 1/16W	[M]
R5819	ERJ3GEYJ334V	330K 1/16W	[M]
R5820	ERDS1FVJ331T	330 1/2W	[M]
R5821	ERDS1FVJ122T	1.2K 1/2W	[M]
R5822	ERDS1FVJ331T	330 1/2W	[M]
R5823	ERJ3GEYJ101V	100 1/16W	[M]
R5824	ERDS1FVJ2R2T	2.2 1/2W	[M]
R5825	ERDS1FVJ2R2T	2.2 1/2W	[M]
R5826	ERDS1FVJ2R2T	2.2 1/2W	[M]
R5827	ERDS1FVJ2R2T	2.2 1/2W	[M]
R5828	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R5829	ERDS1FVJ331T	330 1/2W	[M]
R5830	ERDS1FVJ122T	1.2K 1/2W	[M]
R5831	ERJ3GEYJ182V	1.8K 1/16W	[M]
R5832	ERJ3GEYJ151V	150 1/16W	[M]
R5835	ERJ3GEYJ152V	1.5K 1/16W	[M]
R5847	ERDS1FVJ4R7T	4.7 1/2W	[M]
R5849	ERJ3GEYJ102V	1K 1/16W	[M]
R5866	ERJ3GEYJ683V	68K 1/16W	[M]
R5889	ERJ3GEYJ473V	47K 1/16W	[M]
R5890	ERJ3GEYJ473V	47K 1/16W	[M]
R5891	ERJ3GEYJ151V	150 1/16W	[M]
R5892	ERJ3GEYJ151V	150 1/16W	[M]
R5898	ERJ3GEYJ683V	68K 1/16W	[M]
R5902	ERJ3GEYJ101V	100 1/16W	[M]
R5903	ERJ3GEY0R00V	0 1/16W	[M]
R5906	ERDS1FVJ270T	27 1/2W	[M]
R6800	ERJ3GEYJ270V	27 1/16W	[M]
R6801	ERJ3GEYJ270V	27 1/16W	[M]
R6802	ERJ3GEYJ270V	27 1/16W	[M]
R6803	ERJ3GEYJ270V	27 1/16W	[M]
R6804	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6805	ERJ3GEYJ100V	10 1/16W	[M]
R6806	ERJ3GEYJ102V	1K 1/16W	[M]
R6807	ERJ3GEYJ270V	27 1/16W	[M]
R6808	ERJ3GEYJ270V	27 1/16W	[M]
R6809	ERJ3GEYJ270V	27 1/16W	[M]
R6810	ERJ3GEYJ270V	27 1/16W	[M]
R6811	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6812	ERJ3GEYJ100V	10 1/16W	[M]
R6813	ERJ3GEYJ102V	1K 1/16W	[M]
R6814	ERJ3GEY0R00V	0 1/16W	[M]
R6815	ERJ3GEYJ563V	56K 1/16W	[M]
R6816	ERJ3GEYJ563V	56K 1/16W	[M]
R6819	ERJ3GEY0R00V	0 1/16W	[M]
R6820	ERJ3GEYJ104V	100K 1/16W	[M]
R6821	ERJ3GEYJ104V	100K 1/16W	[M]
R6822	ERJ3GEYJ103V	10K 1/16W	[M]
R6823	ERJ3GEYJ2R7V	2.7 1/16W	[M]
R6824	ERJ3GEYJ223V	22K 1/16W	[M]
R6825	ERJ3GEYJ102V	1K 1/16W	[M]
R6826	ERJ3GEYJ2R7V	2.7 1/16W	[M]
R6827	ERJ3GEYJ102V	1K 1/16W	[M]
R6828	ERJ3GEYJ223V	22K 1/16W	[M]
R6829	ERJ3GEYJ272V	2.7K 1/16W	[M]
R6830	ERJ3GEY0R00V	0 1/16W	[M]
R6837	ERJ3GEYJ103V	10K 1/16W	[M]
R6854	ERJ3GEYJ102V	1K 1/16W	[M]
R6855	ERJ3GEYJ102V	1K 1/16W	[M]
R6856	ERJ3GEYJ122V	1.2K 1/16W	[M]
R6857	ERJ3GEYJ182V	1.8K 1/16W	[M]
R6858	ERJ3GEYJ222V	2.2K 1/16W	[M]
R6859	ERJ3GEYJ272V	2.7K 1/16W	[M]
R6860	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6861	ERJ3GEYJ682V	6.8K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R6862	ERJ3GEYJ103V	10K 1/16W	[M]
R6864	ERJ3GEYJ473V	47K 1/16W	[M]
R6865	ERJ3GEYJ473V	47K 1/16W	[M]
R6869	ERJ3GEYJ392V	3.9K 1/16W	[M]
R6885	ERJ3GEYJ103V	10K 1/16W	[M]
R6886	ERJ3GEYJ222V	2.2K 1/16W	[M]
R6887	ERJ3GEYJ474V	470K 1/16W	[M]
R6888	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6889	ERJ3GEYJ183V	18K 1/16W	[M]
R6890	ERJ3GEYJ681V	680 1/16W	[M]
R6891	ERJ3GEYJ681V	680 1/16W	[M]
R6892	ERJ3GEYJ561V	560 1/16W	[M]
R6893	ERJ3GEYJ181V	180 1/16W	[M]
R6894	ERJ3GEYJ181V	180 1/16W	[M]
R6937	ERJ3GEYJ102V	1K 1/16W	[M]
R6938	ERJ3GEYJ102V	1K 1/16W	[M]
R6939	ERJ3GEYJ122V	1.2K 1/16W	[M]
R6940	ERJ3GEYJ182V	1.8K 1/16W	[M]
R6941	ERJ3GEYJ222V	2.2K 1/16W	[M]
R6942	ERJ3GEYJ272V	2.7K 1/16W	[M]
R6943	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6944	ERJ3GEYJ682V	6.8K 1/16W	[M]
R6950	ERJ3GEYJ103V	10K 1/16W	[M]
R6954	ERJ3GEYJ474V	470K 1/16W	[M]
R6956	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6957	ERJ3GEYJ474V	470K 1/16W	[M]
R6959	ERD2FCVG470T	47 1/4W	[M]
R6960	ERD2FCVG470T	47 1/4W	[M]
R6961	ERJ3GEYJ103V	10K 1/16W	[M]
R6962	ERJ3GEYJ103V	10K 1/16W	[M]
R6963	ERJ3GEYJ102V	1K 1/16W	[M]
R6964	ERJ3GEYJ102V	1K 1/16W	[M]
R6965	ERJ3GEYJ122V	1.2K 1/16W	[M]
R6966	ERJ3GEYJ182V	1.8K 1/16W	[M]
R6967	ERJ3GEYJ222V	2.2K 1/16W	[M]
R6968	ERJ3GEYJ272V	2.7K 1/16W	[M]
R6969	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6970	ERJ3GEYJ682V	6.8K 1/16W	[M]
R6981	ERJ3GEYJ334V	330K 1/16W	[M]
R6982	ERJ3GEYJ680V	68 1/16W	[M]
R6983	ERJ3GEYJ822V	8.2K 1/16W	[M]
R6987	ERJ3GEYJ334V	330K 1/16W	[M]
R6988	ERJ3GEYJ271V	270 1/16W	[M]
R6989	ERJ3GEYJ271V	270 1/16W	[M]
R6990	ERJ3GEYJ271V	270 1/16W	[M]
R6991	ERJ3GEYJ331V	330 1/16W	[M]
R6992	ERJ3GEYJ101V	100 1/16W	[M]
R6993	ERJ3GEYJ273V	27K 1/16W	[M]
R6994	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6995	ERJ3GEYJ102V	1K 1/16W	[M]
R6996	ERJ3GEYJ270V	27 1/16W	[M]
R6997	ERJ3GEY0R00V	0 1/16W	[M]
R8002	ERJ2GEJ473X	47K 2W	[M]
R8003	ERJ2GEJ473X	47K 2W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R8011	ERJ2GEJ220X	22 2W	[M]
R8012	ERJ2GEJ220X	22 2W	[M]
R8013	ERJ2GEJ220X	22 2W	[M]
R8041	ERJ2GEJ330X	33 2W	[M]
R8211	ERJ2GEJ103X	10K 2W	[M]
R8221	ERJ2GEJ822X	8.2K 2W	[M]
R8225	ERJ2GEJ822X	8.2K 2W	[M]
R8230	ERJ2GEJ222X	2.2K 2W	[M]
R8231	ERJ2GEJ223X	22K 2W	[M]
R8232	ERJ2GEJ752X	7.5K 2W	[M]
R8251	ERJ6GEYJ6R8V	6.8 1/10W	[M]
R8261	ERJ2GEJ823X	82K 2W	[M]
R8262	ERJ2GEJ153X	15K 2W	[M]
R8263	ERJ2GEJ823X	82K 2W	[M]
R8264	ERJ2GEJ153X	15K 2W	[M]
R8311	ERJ2RHD242X	2.4K 2W	[M]
R8312	ERJ2RHD102X	1K 2W	[M]
R8313	ERJ2RHD123X	12K 2W	[M]
R8314	ERJ2RHD182X	1.8K 2W	[M]
R8321	ERJ3RBD101V	100 3W	[M]
R8322	ERJ3GEY0R00V	0 1/16W	[M]
R8323	ERJ2GEJ330X	33 2W	[M]
R8324	ERJ2GEJ102X	1K 2W	[M]
R8325	ERJ3RBD101V	100 3W	[M]
R8326	ERJ3GEY0R00V	0 1/16W	[M]
R8327	ERJ2GEJ330X	33 2W	[M]
R8328	ERJ2GEJ102X	1K 2W	[M]
R8331	ERJ3RBD101V	100 3W	[M]
R8332	ERJ3GEY0R00V	0 1/16W	[M]
R8333	ERJ2GEJ330X	33 2W	[M]
R8334	ERJ2GEJ102X	1K 2W	[M]
R8335	ERJ3RBD101V	100 3W	[M]
R8336	ERJ2GEJ330X	33 2W	[M]
R8337	ERJ2GEJ102X	1K 2W	[M]
R8341	ERJ3RBD101V	100 3W	[M]
R8342	ERJ2GEJ330X	33 2W	[M]
R8343	ERJ2GEJ102X	1K 2W	[M]
R8401	ERJ2GEJ101X	100 2W	[M]
R8420	ERJ2GEJ222X	2.2K 2W	[M]
R8421	ERJ2GE0R00X	0 2W	[M]
R8531	ERJ2GEJ152X	1.5K 2W	[M]
R8532	ERJ2GEJ222X	2.2K 2W	[M]
R8533	ERJ2GE0R00X	0 2W	[M]
R8541	ERJ2GEJ153X	15K 2W	[M]
R8551	ERJ2GE0R00X	0 2W	[M]
R8552	ERJ2GEJ102X	1K 2W	[M]
R8553	ERJ2GEJ102X	1K 2W	[M]
R8554	ERJ2GEJ680X	68 2W	[M]
R8555	ERJ2GEJ2R2X	2.2 2W	[M]
R8556	ERJ3GEYJ560V	56 1/16W	[M]
R8557	ERJ3GEYJ510V	51 1/16W	[M]
R8558	ERJ2GEJ473X	47K 2W	[M]
R8559	ERJ2GEJ153X	15K 2W	[M]
R8561	ERJ2GE0R00X	0 2W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R8562	ERJ2GEJ102X	1K 2W	[M]
R8563	ERJ2GEJ102X	1K 2W	[M]
R8564	ERJ2GEJ220X	22 2W	[M]
R8565	ERJ2GEJ2R2X	2.2 2W	[M]
R8566	ERJ3GEYJ560V	56 1/16W	[M]
R8567	ERJ3GEYJ510V	51 1/16W	[M]
R8568	ERJ2GEJ473X	47K 2W	[M]
R8601	ERJ2GEJ104X	100K 2W	[M]
R8611	ERJ2GEJ101X	100 2W	[M]
R8621	ERJ2GEJ105X	1M 2W	[M]
R8622	ERJ2RHD102X	1K 2W	[M]
R9500	ERDS1FVJ100T	10 1/2W	[M]
R9501	ERDS1FVJ100T	10 1/2W	[M]
R9502	ERDS1FVJ100T	10 1/2W	[M]
R9503	ERDS2TJ824T	820K 1/4W	[M]
R9504	ERDS2TJ152T	1.5K 1/4W	[M]
R9505	ERDS2TJ122T	1.2K 1/4W	[M]
R9507	ERDS2TJ1R0T	1 1/4W	[M]
R9508	ERDS2TJ1R0T	1 1/4W	[M]
R9509	ERDS2TJ1R0T	1 1/4W	[M]
R9510	ERDS2TJ1R0T	1 1/4W	[M]
R9511	ERDS2TJ102T	1K 1/4W	[M]
R9512	ERDS2TJ392T	3.9K 1/4W	[M]
R9513	ERDS2TJ331T	330 1/4W	[M]
R9514	ERDS2TJ102T	1K 1/4W	[M]
R9515	ERDS2TJ102T	1K 1/4W	[M]
R9516	ERDS2TJ102T	1K 1/4W	[M]
R9517	ERDS2TJ223T	22K 1/4W	[M]
R9518	ERDS2TJ332T	3.3K 1/4W	[M]
R9519	ERDS2TJ151T	150 1/4W	[M]
R9520	ERDS2TJ472T	4.7K 1/4W	[M]
R9521	ERD2FCVJ4R7T	4.7 1/4W	[M]
R9522	ERDS2TJ1R0T	1 1/4W	[M]
R9523	ERDS1FVJ100T	10 1/2W	[M]
R9525	ERDS1FVJ100T	10 1/2W	[M]
R9528	ERDS1FVJ100T	10 1/2W	[M]
R9529	ERJ3GEY0R00V	0 1/16W	[M]
R9530	ERJ3GEY0R00V	0 1/16W	[M]
R9531	ERJ3GEY0R00V	0 1/16W	[M]
R9532	ERJ3GEY0R00V	0 1/16W	[M]
R9534	ERJ3GEY0R00V	0 1/16W	[M]
R9535	ERJ3GEY0R00V	0 1/16W	[M]
R9536	ERJ3GEY0R00V	0 1/16W	[M]
R9836	ERD2FCVJ4R7T	4.7 1/4W	[M]
RX8001	D1H410320002	CHIP RESISTOR	[M]
RX8011	D1H88204A024	CHIP RESISTOR	[M]
RX8012	D1H88204A024	CHIP RESISTOR	[M]
RX8013	D1H88204A024	CHIP RESISTOR	[M]
RX8014	D1H88204A024	CHIP RESISTOR	[M]
RX8015	D1H88204A024	CHIP RESISTOR	[M]
RX8016	D1H88204A024	CHIP RESISTOR	[M]
RX8017	D1H88204A024	CHIP RESISTOR	[M]
RX8018	D1H422020001	CHIP RESISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
RX8019	D1H422020001	CHIP RESISTOR	[M]
RX8020	D1H422020001	CHIP RESISTOR	[M]
RX8031	D1H447220001	CHIP RESISTOR	[M]
RX8032	D1H447220001	CHIP RESISTOR	[M]
RX8111	D1H422320002	CHIP RESISTOR	[M]
RX8401	D1H410120001	CHIP RESISTOR	[M]
RX8402	D1H410120001	CHIP RESISTOR	[M]
RX8403	D1H410120001	CHIP RESISTOR	[M]
RX8531	D1H456020001	CHIP RESISTOR	[M]
RX8532	D1H85604A024	CHIP RESISTOR	[M]
RX8533	D1H456020001	CHIP RESISTOR	[M]
RX8534	D1H456020001	CHIP RESISTOR	[M]
RX8611	D1H447220001	CHIP RESISTOR	[M]
RX8691	D1H410320002	CHIP RESISTOR	[M]
K2905	ERJ3GEY0R00V	CHIP JUMPER	[M]
K2906	ERJ3GEY0R00V	CHIP JUMPER	[M]
K8001	ERJ2GE0R00X	CHIP JUMPER	[M]
K8004	ERJ2GE0R00X	CHIP JUMPER	[M]
K8006	ERJ2GE0R00X	CHIP JUMPER	[M]
K8009	ERJ2GE0R00X	CHIP JUMPER	[M]
K8106	ERJ3GEY0R00V	CHIP JUMPER	[M]
K8421	ERJ3GEY0R00V	CHIP JUMPER	[M]
K9801	ERDS2TJ1R0T	RESISTOR	[M]
K9802	ERDS2TJ1R0T	RESISTOR	[M]
		CAPACITORS	
C1	F1D1H5R6A017	5.6P 50V	[M]
C2	F1D1H102A029	1000P 50V	[M]
C3	F1D1H2R2A017	2.2P 50V	[M]
C4	F1D1H181A012	180P 50V	[M]
C5	F1D1H5R6A017	5.6P 50V	[M]
C6	F1D1H3R3A017	3.3P 50V	[M]
C7	F1D1H4R7A017	4.7P 50V	[M]
C8	F1D1H3R3A017	3.3P 50V	[M]
C9	F1D1H2R2A017	2.2P 50V	[M]
C10	F1D1H180A015	18P 50V	[M]
C11	F1D1E103A001	0.01 25V	[M]
C11	F1D1H102A029	1000P 50V	[M]
C12	F2A1C101A234	100 16V	[M]
C21	F1D1E103A001	0.01 25V	[M]
C22	F2A1C101A234	100 16V	[M]
C1001	F1B2H103A060	0.01 500V	[M]
C1002	ECEA1HKN2R2B	2.2 50V	[M]
C1002	F1B2H103A060	0.01 500V	[M]
C1006	ECEA1HKA010B	1 50V	[M]
C1007	F0A2A472A034	4700P 100V	[M]
C1008	ECEA1HKA010B	1 50V	[M]
C1009	ECEA1CKA470B	47 16V	[M]
C1010	ECA1EM101B	100 25V	[M]
C1011	ECQV1H473JZ3	0.047 50V	[M]
C1012	ECJ1VB1H102K	1000P 50V	[M]
C1013	ECJ1VB1H102K	1000P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1014	ECJ1VB1H102K	1000P 50V	[M]
C1015	ECJ1VB1H102K	1000P 50V	[M]
C1016	ECJ1VB1H222K	2200P 50V	[M]
C1017	ECJ1VB1H222K	2200P 50V	[M]
C1018	ECJ1VB1H332K	3300P 50V	[M]
C1019	ECJ1VB1H102K	1000P 50V	[M]
C1020	ECJ1VB1H471K	470P 50V	[M]
C1021	ECJ1VB1H471K	470P 50V	[M]
C1022	ECJ1VB1H102K	1000P 50V	[M]
C1023	ECJ1VB1H102K	1000P 50V	[M]
C1026	ECEA0JKA470B	47 6.3V	[M]
C1027	ECJ1VB1H102K	1000P 50V	[M]
C1030	ECEA1AKA101B	100 10V	[M]
C1031	ECA1AM101B	100 10V	[M]
C1032	F1C1C183A023	0.018 16V	[M]
C1033	F1C1C183A023	0.018 16V	[M]
C1034	ECEA1HKA3R3B	3.3 50V	[M]
C1035	ECEA1HKA3R3B	3.3 50V	[M]
C1036	ECJ1VB1C333K	0.033 16V	[M]
C1037	ECEA1HKA3R3B	3.3 50V	[M]
C1038	ECJ1VB1H221K	220P 50V	[M]
C1039	ECJ1VB1H221K	220P 50V	[M]
C1040	ECEA1CKA100B	10 16V	[M]
C1041	ECEA1CKA100B	10 16V	[M]
C1042	ECEA1CKA220B	22 16V	[M]
C1043	ECEA1HKA4R7B	4.7 50V	[M]
C1044	ECEA1AKA330B	33 10V	[M]
C1045	ECEA1AKA220B	22 10V	[M]
C1046	ECA1CM221B	220 16V	[M]
C1049	ECJ1VB1H332K	3300P 50V	[M]
C1050	ECJ1VB1H332K	3300P 50V	[M]
C1056	ECEA1CKA100B	10 16V	[M]
C1057	ECJ1VB1H102K	1000P 50V	[M]
C1058	ECJ1VB1H102K	1000P 50V	[M]
C1059	ECJ1VB1H103K	0.01 50V	[M]
C2039	ECJ1VB1H103K	0.01 50V	[M]
C2046	F2A0J102A130	1000P 6.3V	[M]
C2047	F2A0J102A130	1000P 6.3V	[M]
C2048	ECEA1HKA100B	10 50V	[M]
C2049	ECA0JM221B	220 6.3V	[M]
C2050	ECEA1HKA220B	22 50V	[M]
C2100	ECEA1HKA010B	1 50V	[M]
C2101	ECJ1VB1H221K	220P 50V	[M]
C2102	ECEA1CKA100B	10 16V	[M]
C2103	ECEA1CKA100B	10 16V	[M]
C2104	ECEA1CKA100B	10 16V	[M]
C2105	ECEA1HKA330B	33 50V	[M]
C2106	ECJ1VC1H100D	10P 50V	[M]
C2107	ECJ1VB1C103K	0.01 16V	[M]
C2108	ECEA1HKA470B	47 50V	[M]
C2110	ECEA1HKA470B	47 50V	[M]
C2111	ECJ1VC1H102J	1000P 50V	[M]
C2112	ECEA1HKA010B	1 50V	[M]
C2113	ECJ1VB1A154K	0.15 10V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2114	ECJ1VB1A105K	1 10V	[M]
C2115	ECJ1VF1C474Z	0.47 16V	[M]
C2116	ECUV1C224KBV	0.22 16V	[M]
C2117	ECUV1C224KBV	0.22 16V	[M]
C2118	ECJ1VB1H392K	3900P 50V	[M]
C2119	ECEA1HKA4R7B	4.7 50V	[M]
C2120	ECEA1HKA4R7B	4.7 50V	[M]
C2121	ECJ1VC1H101K	100P 50V	[M]
C2122	ECJ1VC1H470K	47P 50V	[M]
C2123	ECJ1VB1C333K	0.033 16V	[M]
C2124	ECJ1VB1C393K	0.039 16V	[M]
C2128	ECEA1HKA010B	1 50V	[M]
C2129	ECJ1VC1H330J	33P 50V	[M]
C2130	ECJ1VC1H101K	100P 50V	[M]
C2131	ECEA1HKA010B	1 50V	[M]
C2134	ECJ1VB1H102K	1000P 50V	[M]
C2136	ECJ1VC1H102J	1000P 50V	[M]
C2137	ECJ1VB1H223K	0.022 50V	[M]
C2138	ECEA1CKA100B	10 16V	[M]
C2139	ECJ1VB1H332K	3300P 50V	[M]
C2140	ECJ1VB1C823K	0.082 16V	[M]
C2141	ECEA1HKA100B	10 50V	[M]
C2200	ECEA1HKA010B	1 50V	[M]
C2201	ECJ1VB1H221K	220P 50V	[M]
C2202	ECEA1CKA100B	10 16V	[M]
C2203	ECEA1CKA100B	10 16V	[M]
C2204	ECEA1CKA100B	10 16V	[M]
C2205	ECEA1HKA330B	33 50V	[M]
C2206	ECJ1VC1H100D	10P 50V	[M]
C2207	ECJ1VB1C103K	0.01 16V	[M]
C2208	ECEA1HKA470B	47 50V	[M]
C2210	ECEA1HKA470B	47 50V	[M]
C2211	ECJ1VC1H102J	1000P 50V	[M]
C2212	ECEA1HKA010B	1 50V	[M]
C2213	ECJ1VB1A154K	0.15 10V	[M]
C2214	ECJ1VB1A105K	1 10V	[M]
C2215	ECJ1VF1C474Z	0.47 16V	[M]
C2216	ECUV1C224KBV	0.22 16V	[M]
C2217	ECUV1C224KBV	0.22 16V	[M]
C2218	ECJ1VB1H392K	3900P 50V	[M]
C2219	ECEA1HKA4R7B	4.7 50V	[M]
C2220	ECEA1HKA4R7B	4.7 50V	[M]
C2221	ECJ1VC1H101K	100P 50V	[M]
C2222	ECJ1VC1H470K	47P 50V	[M]
C2223	ECJ1VB1C333K	0.033 16V	[M]
C2225	ECJ1VB1C393K	0.039 16V	[M]
C2228	ECEA1HKA010B	1 50V	[M]
C2229	ECJ1VC1H330J	33P 50V	[M]
C2230	ECJ1VC1H101K	100P 50V	[M]
C2231	ECEA1HKA010B	1 50V	[M]
C2234	ECJ1VB1H102K	1000P 50V	[M]
C2236	ECJ1VC1H102J	1000P 50V	[M]
C2237	ECJ1VB1H223K	0.022 50V	[M]
C2238	ECEA1CKA100B	10 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2239	ECJ1VB1H332K	3300P 50V	[M]
C2240	ECEA1HKA100B	10 50V	[M]
C2304	ECJ1VC1H100D	10P 50V	[M]
C2306	ECEA1HKA2R2B	2.2 50V	[M]
C2310	ECEA1HKA010B	1 50V	[M]
C2311	ECEA1HKAR47B	0.47 50V	[M]
C2312	ECEA1CKA100B	10 16V	[M]
C2320	ECJ1VB1C104K	0.1 16V	[M]
C2332	ECJ1VB1A105K	1 10V	[M]
C2335	ECJ1VB1A105K	1 10V	[M]
C2400	ECEA1CKA100B	10 16V	[M]
C2404	ECJ1VC1H100D	10P 50V	[M]
C2406	ECEA1HKA2R2B	2.2 50V	[M]
C2410	ECEA1HKA010B	1 50V	[M]
C2411	ECEA1HKAR47B	0.47 50V	[M]
C2434	F2A0J102A130	1000P 6.3V	[M]
C2436	ECJ1VB1A105K	1 10V	[M]
C2437	ECJ1VB1A105K	1 10V	[M]
C2440	ECJ1VB1C104K	0.1 16V	[M]
C2441	ECJ1VB1H103K	0.01 50V	[M]
C2442	ECEA1HKA220B	22 50V	[M]
C2443	ECJ1VB1H103K	0.01 50V	[M]
C2444	ECEA1AKA221B	220 10V	[M]
C2500	ECEA1CKA100B	10 16V	[M]
C2502	ECEA1CKA100B	10 16V	[M]
C2509	ECEA1HKAR47B	0.47 50V	[M]
C2515	ECEA1HKAR22B	0.22 50V	[M]
C2516	ECJ1VC1H100D	10P 50V	[M]
C2517	ECEA1HKAR47B	0.47 50V	[M]
C2522	ECJ1VB1C104K	0.1 16V	[M]
C2600	ECEA1HKA100B	10 50V	[M]
C2601	ECJ1VB1H103K	0.01 50V	[M]
C2602	ECEA1HKA010B	1 50V	[M]
C2603	ECEA1HKA3R3B	3.3 50V	[M]
C2604	ECJ1VB1H102K	1000P 50V	[M]
C2605	ECJ1VC1H101K	100P 50V	[M]
C2606	ECEA1HKA100B	10 50V	[M]
C2607	ECJ1VB1C104K	0.1 16V	[M]
C2608	ECEA1HKAR47B	0.47 50V	[M]
C2609	ECEA1HKA100B	10 50V	[M]
C2610	ECJ1VC1H102J	1000P 50V	[M]
C2612	ECJ1VB1H103K	0.01 50V	[M]
C2613	ECJ1VB1H102K	1000P 50V	[M]
C2614	ECEA1HKA3R3B	3.3 50V	[M]
C2615	ECEA1HKA4R7B	4.7 50V	[M]
C2616	ECJ1VB1C333K	0.033 16V	[M]
C2617	ECJ1VB1H103K	0.01 50V	[M]
C2618	ECJ1VB1H103K	0.01 50V	[M]
C2619	F0A2A681A010	680P 100V	[M]
C2620	ECEA1CKA100B	10 16V	[M]
C2621	ECEA1HKAR47B	0.47 50V	[M]
C2622	ECEA1HKA010B	1 50V	[M]
C2623	ECEA1HKA010B	1 50V	[M]
C2624	ECJ1VC1H101K	100P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2625	ECEA1CKA220B	22 16V	[M]
C2626	ECJ2VF1C105Z	1 16V	[M]
C2627	ECEA1CKA220B	22 16V	[M]
C2629	ECA0JM101B	100 6.3V	[M]
C2630	ECA0JM101B	100 6.3V	[M]
C2631	ECJ1VC1H151J	150P 50V	[M]
C2632	ECJ1VB1H102K	1000P 50V	[M]
C2633	ECJ1VC1H270J	27P 50V	[M]
C2634	ECJ1VC1H270J	27P 50V	[M]
C2636	ECJ1VB1H102K	1000P 50V	[M]
C2637	ECJ1VB1H332K	3300P 50V	[M]
C2638	ECJ1VB1H103K	0.01 50V	[M]
C2639	ECEA1HKA4R7B	4.7 50V	[M]
C2641	ECEA1HKA010B	1 50V	[M]
C2642	ECEA1HKA010B	1 50V	[M]
C2643	ECJ1VB1H682K	6800P 50V	[M]
C2644	ECJ1VB1H682K	6800P 50V	[M]
C2647	ECJ1VB1H102K	1000P 50V	[M]
C2648	ECJ1VB1H103K	0.01 50V	[M]
C2649	ECJ1VB1C104K	0.1 16V	[M]
C2650	ECJ1VB1A474K	0.47 10V	[M]
C2704	ECJ1VC1H101K	100P 50V	[M]
C2705	ECJ1VC1H101K	100P 50V	[M]
C2706	ECJ1VC1H101K	100P 50V	[M]
C2707	ECJ1VC1H101K	100P 50V	[M]
C2711	ECJ1VC1H101K	100P 50V	[M]
C2712	ECJ1VB1H102K	1000P 50V	[M]
C2713	ECJ1VB1H102K	1000P 50V	[M]
C2714	ECJ1VC1H101K	100P 50V	[M]
C2716	ECJ1VC1H101K	100P 50V	[M]
C2717	ECJ1VC1H101K	100P 50V	[M]
C2718	ECJ1VB1H471K	470P 50V	[M]
C2719	ECJ1VB1H103K	0.01 50V	[M]
C2720	ECJ1VB1H471K	470P 50V	[M]
C2721	ECJ1VB1H103K	0.01 50V	[M]
C2722	ECEA1AKA220B	22 10V	[M]
C2723	ECJ1VC1H101K	100P 50V	[M]
C2724	ECJ1VC1H101K	100P 50V	[M]
C2725	ECJ1VC1H101K	100P 50V	[M]
C2726	ECJ1VC1H101K	100P 50V	[M]
C2727	ECJ1VC1H101K	100P 50V	[M]
C2728	ECJ1VC1H101K	100P 50V	[M]
C2729	ECEA0JKA101B	100 6.3V	[M]
C2730	ECJ1VB1H104K	0.1 50V	[M]
C2731	ECEA1HKA0R1B	0.1 50V	[M]
C2732	ECJ1VB1H103K	0.01 50V	[M]
C2733	ECEA1HKA2R2B	2.2 50V	[M]
C2734	ECJ1VC1H390J	39P 50V	[M]
C2735	ECJ1VC1H390J	39P 50V	[M]
C2736	ECJ1VC1H150J	15P 50V	[M]
C2737	ECJ1VC1H150J	15P 50V	[M]
C2738	ECJ1VB1C223K	0.022 16V	[M]
C2739	ECJ1VC1H331J	330P 50V	[M]
C2740	ECJ1VC1H331J	330P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2741	ECEA1VKA4R7B	4.7 35V	[M]
C2742	ECJ1VB1H103K	0.01 50V	[M]
C2743	ECJ1VB1H102K	1000P 50V	[M]
C2744	ECJ1VB1H103K	0.01 50V	[M]
C2745	ECJ1VB1H103K	0.01 50V	[M]
C2746	ECJ1VB1H103K	0.01 50V	[M]
C2747	ECEA1HKA0R1B	0.1 50V	[M]
C2748	ECEA1HKA0R1B	0.1 50V	[M]
C2749	ECEA1HKA0R1B	0.1 50V	[M]
C2750	ECJ1VC1H101K	100P 50V	[M]
C2751	ECJ1VB1H471K	470P 50V	[M]
C2752	ECJ1VB1H102K	1000P 50V	[M]
C2754	ECJ1VB1H103K	0.01 50V	[M]
C2758	ECJ1VB1C104K	0.1 16V	[M]
C2759	ECJ1VB1H103K	0.01 50V	[M]
C2825	ECJ1VB1A105K	1 10V	[M]
C2826	ECJ1VB1A105K	1 10V	[M]
C2827	ECEA0JKA221B	220 6.3V	[M]
C2842	ECJ1VB1C104K	0.1 16V	[M]
C2843	ECJ1VB1C104K	0.1 16V	[M]
C2846	ECJ1VC1H101K	100P 50V	[M]
C2847	ECJ1VC1H101K	100P 50V	[M]
C2848	ECJ1VC1H101K	100P 50V	[M]
C2849	ECJ1VC1H101K	100P 50V	[M]
C2850	ECJ1VC1H101K	100P 50V	[M]
C2851	ECJ1VC1H101K	100P 50V	[M]
C2855	ECEA1HKN4R7B	4.7 50V	[M]
C2857	ECEA1CKA100B	10 16V	[M]
C2858	ECEA1CKA100B	10 16V	[M]
C2860	ECEA1HKA4R7B	4.7 50V	[M]
C2862	ECEA1HKA4R7B	4.7 50V	[M]
C2864	ECEA1HKA100B	10 50V	[M]
C2865	ECEA1HKA4R7B	4.7 50V	[M]
C2872	ECJ1VB1E103K	0.01 25V	[M]
C2873	ECJ1VB1E103K	0.01 25V	[M]
C2875	ECJ1VF1A105Z	1 10V	[M]
C2899	ECEA1HKA2R2B	2.2 50V	[M]
C2900	ECJ1VB1H472K	4700 50V	[M]
C2901	ECJ1VB1H561K	560 50V	[M]
C2902	ECJ1VB1H102K	1000P 50V	[M]
C2903	ECJ1VB1E103K	0.01 25V	[M]
C2904	ECJ1VB1H272K	2700 50V	[M]
C2905	ECJ1VB1H102K	1000P 50V	[M]
C2907	ECJ1VB1H182K	1800 50V	[M]
C2912	ECJ2VF1E473K	0.1 50V	[M]
C2913	ECJ1VB1H104K	0.1 50V	[M]
C2914	ECJ1VB1A224K	0.22 10V	[M]
C2915	ECJ1VB1A224K	0.22 10V	[M]
C2916	ECEA1CKA101B	100 16V	[M]
C2917	ECJ1VB1C683K	0.068 16V	[M]
C2918	ECJ1VB1C683K	0.068 16V	[M]
C2919	ECJ1VB1C683K	0.068 16V	[M]
C2920	ECJ1VB1C683K	0.068 16V	[M]
C2921	ECEA1CKA470B	47 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2922	ECEA1CKA101B	100 16V	[M]
C2923	ECEA1HKA010B	1 50V	[M]
C2924	ECEA1CKA101B	100 16V	[M]
C2925	ECJ1VB1H102K	1000P 50V	[M]
C2926	ECJ1VB1H472K	4700 50V	[M]
C2927	ECJ1VB1C683K	0.068 16V	[M]
C2928	ECJ1VB1H104K	0.1 50V	[M]
C2929	ECJ1VB1H104K	0.1 50V	[M]
C2930	ECJ1VB1C683K	0.068 16V	[M]
C2933	ECEA1HKA010B	1 50V	[M]
C2934	ECEA1CKA101B	100 16V	[M]
C2935	ECJ1VB1H104K	0.1 50V	[M]
C2936	ECEA1HKA2R2B	2.2 50V	[M]
C2937	ECJ1VB1H332K	3300P 50V	[M]
C2938	ECJ2VB1C154K	0.15 16V	[M]
C2939	ECEA1HKA010B	1 50V	[M]
C2940	ECEA1HKA010B	1 50V	[M]
C2941	ECEA1HKA010B	1 50V	[M]
C2942	ECJ1VB1H102K	1000P 50V	[M]
C2943	ECJ1VB1H102K	1000P 50V	[M]
C2944	ECJ1VB1H562K	5600P 50V	[M]
C2947	ECJ1VC1H102J	1000P 50V	[M]
C2948	ECJ1VC1H102J	1000P 50V	[M]
C2953	ECJ1VB1A224K	0.22 10V	[M]
C2954	ECEA1HKA100B	10 50V	[M]
C2961	ECJ1VC1H102J	1000P 50V	[M]
C2962	ECEA1CKA470B	47 16V	[M]
C2963	ECEA1CKA470B	47 16V	[M]
C2964	ECJ1VC1H101K	100P 50V	[M]
C2965	ECJ1VB1A224K	0.22 10V	[M]
C2968	ECJ1VB1A105K	1 10V	[M]
C2969	ECJ1VC1H100D	10P 50V	[M]
C2970	ECJ1VB1A224K	0.22 10V	[M]
C2973	ECA1CM101B	100 16V	[M]
C2974	F2A0J102A130	1000P 6.3V	[M]
C2975	F2A0J102A130	1000P 6.3V	[M]
C2977	ECJ1VB1H471K	470P 50V	[M]
C2978	ECJ1VC1H101K	100P 50V	[M]
C2979	ECEA1HKN4R7B	4.7 50V	[M]
C2981	ECJ1VB1H471K	470P 50V	[M]
C2982	ECJ1VB1H471K	470P 50V	[M]
C2983	ECJ1VB1H103K	0.01 50V	[M]
C2984	ECJ1VB1H103K	0.01 50V	[M]
C2985	ECEA1CKA101B	100 16V	[M]
C2986	ECA1CM100B	10 16V	[M]
C2987	ECEA1AKN100B	10 10V	[M]
C2988	ECJ1VB1H103K	0.01 50V	[M]
C2989	ECJ1VB1H103K	0.01 50V	[M]
C2990	ECEA1CKA101B	100 16V	[M]
C2991	ECA1CM100B	10 16V	[M]
C2992	ECEA1AKN100B	10 10V	[M]
C3602	ECEA1CKA100B	10 16V	[M]
C3603	ECJ1VB1H103K	0.01 50V	[M]
C3604	ECJ1VB1H102K	1000P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C3606	ECJ1VB1H103K	0.01 50V	[M]
C3607	ECJ1VB1E473K	0.047 25V	[M]
C3608	ECJ1VC1H080D	8P 50V	[M]
C3609	ECJ1VB1H102K	1000P 50V	[M]
C3610	ECJ1VB1H103K	0.01 50V	[M]
C3611	ECEA1HKA4R7B	4.7 50V	[M]
C3612	F2A0J102A130	1000P 6.3V	[M]
C3617	ECEA1AKA221B	220 10V	[M]
C3618	ECEA1AKA221B	220 10V	[M]
C3620	ECJ1VB1C563K	0.056 16V	[M]
C3621	ECJ1VB1C563K	0.056 16V	[M]
C3622	ECJ1VB1C563K	0.056 16V	[M]
C3623	ECJ1VB1C104K	0.1 16V	[M]
C5100	ECJ1VB1H821K	820P 50V	[M]
C5101	ECJ1VC1H150J	15P 50V	[M]
C5102	ECJ1VB1H104K	0.1 50V	[M]
C5103	ECJ1VB1H104K	0.1 50V	[M]
C5200	ECJ1VB1H821K	820P 50V	[M]
C5201	ECJ1VC1H150J	15P 50V	[M]
C5202	ECJ1VB1H104K	0.1 50V	[M]
C5203	ECJ1VB1H104K	0.1 50V	[M]
C5300	ECJ1VC1H150J	15P 50V	[M]
C5301	ECJ1VB1H104K	0.1 50V	[M]
C5302	ECJ1VB1H104K	0.1 50V	[M]
C5303	ECJ1VB1H821K	820P 50V	[M]
C5400	ECJ1VC1H150J	15P 50V	[M]
C5401	ECJ1VB1H104K	0.1 50V	[M]
C5402	ECJ1VB1H104K	0.1 50V	[M]
C5403	ECJ1VB1H821K	820P 50V	[M]
C5500	ECJ1VB1H821K	820P 50V	[M]
C5501	ECJ1VC1H150J	15P 50V	[M]
C5502	ECJ1VB1H104K	0.1 50V	[M]
C5503	ECJ1VB1H104K	0.1 50V	[M]
C5604	ECJ1VB1H104K	0.1 50V	[M]
C5605	ECJ1VB1H104K	0.1 50V	[M]
C5706	ECJ1VC1H150J	15P 50V	[M]
C5707	ECJ1VB1H821K	820P 50V	[M]
C5801	F2A1E471A205	470P 25V	[M]
C5802	ECA1CM331B	330 16V	[M]
C5803	ECJ1VB1H102K	1000P 50V	[M]
C5804	ECJ1VB1H103K	0.01 50V	[M]
C5805	ECA1CM101B	100 16V	[M]
C5806	ECJ1VB1H103K	0.01 50V	[M]
C5807	ECEA1HKA2R2B	2.2 50V	[M]
C5808	ECA1CM331B	330 16V	[M]
C5809	ECJ1VB1H103K	0.01 50V	[M]
C5810	ECA1EM101B	100 25V	[M]
C5811	ECJ1VB1H103K	0.01 50V	[M]
C5812	ECEA1EKA330B	33 25V	[M]
C5813	ECEA0JKA221B	220 6.3V	[M]
C5814	ECJ1VB1H103K	0.01 50V	[M]
C5815	F2A1J332A306	3300P 63V	[M]
C5816	ECA1EM222B	2200 25V	[M]
C5817	ECA1EM222B	2200 25V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C5818	F2A1J332A306	3300P 63V	[M]
C5819	ECJ1VB1H103K	0.01 50V	[M]
C5834	ECEA1HKA010B	1 50V	[M]
C5836	ECEA2AU100B	10 100V	[M]
C6800	ECEA1CKA470B	47 16V	[M]
C6801	ECJ1VB1H102K	1000P 50V	[M]
C6802	ECEA1CKA470B	47 16V	[M]
C6803	ECJ1VB1H102K	1000P 50V	[M]
C6804	ECEA1HKA4R7B	4.7 50V	[M]
C6805	ECJ1VC1H101K	100P 50V	[M]
C6806	ECJ2VF1E473Z	0.047 25V	[M]
C6807	ECJ1VB1H102K	1000P 50V	[M]
C6809	ECJ1VB1H103K	0.01 50V	[M]
C6810	ECJ1VC1H101K	100P 50V	[M]
C6811	ECA1CM471B	470 16V	[M]
C6812	ECJ1VB1H102K	1000P 50V	[M]
C6813	ECEA0JKA101B	100 6.3V	[M]
C6843	ECJ1VB1C223K	0.022 16V	[M]
C6844	ECJ1VB1C223K	0.022 16V	[M]
C6853	ECEA0JKA470B	47 6.3V	[M]
C6854	ECEA1HKA3R3B	3.3 50V	[M]
C6855	ECEA1HKA220B	22 50V	[M]
C6856	ECEA1HKA220B	22 50V	[M]
C6865	ECEA1HKA010B	1 50V	[M]
C6866	ECJ1VB1H102K	1000P 50V	[M]
C6867	ECJ1VC1H101K	100P 50V	[M]
C6868	ECJ1VB1H102K	1000P 50V	[M]
C6870	ECEA1HKA010B	1 50V	[M]
C6871	ECJ1VB1H103K	0.01 50V	[M]
C6872	ECEA1HKAR33B	0.33 50V	[M]
C6873	ECJ1VB1C105K	1 16V	[M]
C6875	ECJ1VB1C223K	0.022 16V	[M]
C6876	ECJ1VB1C223K	0.022 16V	[M]
C6879	ECEA1HKA4R7B	4.7 50V	[M]
C6881	ECEA1HKA3R3B	3.3 50V	[M]
C6882	ECJ1VB1H471K	470P 50V	[M]
C6885	ECJ1VB1H331K	330P 50V	[M]
C6886	ECJ1VB1H331K	330P 50V	[M]
C6887	ECJ1VB1H331K	330P 50V	[M]
C6888	ECJ1VB1H331K	330P 50V	[M]
C6889	ECJ1VB1H104K	0.1 50V	[M]
C6890	ECEA0JKA101B	100 6.3V	[M]
C6891	ECJ1VC1H101K	100P 50V	[M]
C6894	ECJ1VB1H102K	1000P 50V	[M]
C6895	ECA1CAK100XB	10 16V	[M]
C6896	ECJ1VC1H101K	100P 50V	[M]
C6897	ECJ1VC1H101K	100P 50V	[M]
C6898	ECJ1VB1H332K	3300P 50V	[M]
C8001	EEE0GA331WP	330P 4V	[M]
C8003	ECJ0EF1C104Z	0.1 16V	[M]
C8004	ECJ0EF1C104Z	0.1 16V	[M]
C8005	ECJ0EF1C104Z	0.1 16V	[M]
C8006	ECJ0EF1C104Z	0.1 16V	[M]
C8007	ECJ0EF1C104Z	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C8008	ECJ0EF1C104Z	0.1 16V	[M]
C8011	F2G0J101A066	100P 6.3V	[M]
C8012	ECJ0EF1C104Z	0.1 16V	[M]
C8013	ECJ0EF1C104Z	0.1 16V	[M]
C8014	ECJ0EF1C104Z	0.1 16V	[M]
C8015	ECJ0EF1C104Z	0.1 16V	[M]
C8016	ECJ0EF1C104Z	0.1 16V	[M]
C8017	ECJ0EF1C104Z	0.1 16V	[M]
C8018	ECJ0EF1C104Z	0.1 16V	[M]
C8019	ECJ0EF1C104Z	0.1 16V	[M]
C8020	ECJ0EF1C104Z	0.1 16V	[M]
C8021	ECJ0EF1C104Z	0.1 16V	[M]
C8022	ECJ0EF1C104Z	0.1 16V	[M]
C8023	ECJ0EF1C104Z	0.1 16V	[M]
C8024	ECJ0EF1C104Z	0.1 16V	[M]
C8025	ECJ0EF1C104Z	0.1 16V	[M]
C8026	ECJ0EF1C104Z	0.1 16V	[M]
C8051	ECJ1VB0J105K	1 6.3V	[M]
C8052	ECJ0EB1A104K	0.1 10V	[M]
C8053	ECJ0EF1C104Z	0.1 16V	[M]
C8054	ECJ0EC1H221J	220P 50V	[M]
C8055	ECJ1VB0J105K	1 6.3V	[M]
C8056	ECJ0EB1E222K	2200P 25V	[M]
C8057	ECJ1VB0J105K	1 6.3V	[M]
C8111	ECJ0EB1A104K	0.1 10V	[M]
C8112	ECJ1VB0J105K	1 6.3V	[M]
C8113	ECJ0EB1E471K	470P 25V	[M]
C8201	F2G0J101A066	100P 6.3V	[M]
C8202	ECJ0EB1A104K	0.1 10V	[M]
C8203	ECJ0EB1A104K	0.1 10V	[M]
C8221	ECJ0EB1E102K	1000P 25V	[M]
C8222	ECJ0EB1E821K	820P 25V	[M]
C8225	ECJ0EB1E102K	1000P 25V	[M]
C8226	ECJ0EB1E102K	1000P 25V	[M]
C8231	ECJ0EB1A104K	0.1 10V	[M]
C8232	ECJ0EB1A104K	0.1 10V	[M]
C8251	F2G0J221A065	220P 6.3V	[M]
C8252	ECJ0EF1C104Z	0.1 16V	[M]
C8253	ECJ0EF1C104Z	0.1 16V	[M]
C8255	F2G1C220A037	22P 16V	[M]
C8256	ECJ0EF1C104Z	0.1 16V	[M]
C8257	F2G1C470A076	47P 16V	[M]
C8258	ECJ0EF1C104Z	0.1 16V	[M]
C8261	ECJ0EF1C104Z	0.1 16V	[M]
C8262	ECJ0EF1C104Z	0.1 16V	[M]
C8301	F2G0J221A031	220P 6.3V	[M]
C8302	F2G0J330A031	33P 6.3V	[M]
C8303	ECJ0EB1A104K	0.1 10V	[M]
C8304	ECJ0EB1A104K	0.1 10V	[M]
C8305	ECJ0EB1A104K	0.1 10V	[M]
C8306	ECJ0EB1A104K	0.1 10V	[M]
C8311	ECJ0EB1A104K	0.1 10V	[M]
C8312	ECJ1VB0J105K	1 6.3V	[M]
C8313	ECJ1VB0J105K	1 6.3V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C8321	ECJ0EF1C104Z	0.1 16V	[M]
C8325	ECJ0EF1C104Z	0.1 16V	[M]
C8330	F2G0J470A031	47P 6.3V	[M]
C8331	ECJ0EF1C104Z	0.1 16V	[M]
C8335	ECJ0EF1C104Z	0.1 16V	[M]
C8341	ECJ0EF1C104Z	0.1 16V	[M]
C8401	ECJ0EC1H150J	15P 50V	[M]
C8421	F2G0J101A083	100P 6.3V	[M]
C8422	ECJ0EF1C104Z	0.1 16V	[M]
C8423	F2G0J330A083	33P 6.3V	[M]
C8424	ECJ0EF1C104Z	0.1 16V	[M]
C8426	ECJ0EF1C104Z	0.1 16V	[M]
C8427	ECJ0EF1C104Z	0.1 16V	[M]
C8428	ECJ0EF1C104Z	0.1 16V	[M]
C8501	F2G0J101A031	100P 6.3V	[M]
C8502	ECJ0EF1C104Z	0.1 16V	[M]
C8503	ECJ0EF1C104Z	0.1 16V	[M]
C8504	ECJ0EF1C104Z	0.1 16V	[M]
C8505	ECJ0EF1C104Z	0.1 16V	[M]
C8511	ECJ1VB0J105K	1 6.3V	[M]
C8512	ECJ1VB0J105K	1 6.3V	[M]
C8513	ECJ0EB1A104K	0.1 10V	[M]
C8514	ECJ0EB1A104K	0.1 10V	[M]
C8515	ECJ0EB1A104K	0.1 10V	[M]
C8516	ECJ0EB1A104K	0.1 10V	[M]
C8521	ECJ0EB1A104K	0.1 10V	[M]
C8522	ECJ0EB1A104K	0.1 10V	[M]
C8523	ECJ0EF1C104Z	0.1 16V	[M]
C8524	ECJ0EF1C104Z	0.1 16V	[M]
C8525	ECJ0EB1C562K	5600P 16V	[M]
C8526	ECJ0EB1C183K	0.018 16V	[M]
C8527	ECJ0EB1A333K	0.033 10V	[M]
C8528	ECJ1VB0J105K	1 6.3V	[M]
C8529	ECJ1VB0J105K	1 6.3V	[M]
C8530	ECJ0EF1C104Z	0.1 16V	[M]
C8531	ECJ0EC1H101J	100P 50V	[M]
C8532	ECJ0EC1H221J	220P 50V	[M]
C8533	ECJ0EF1C104Z	0.1 16V	[M]
C8541	ECJ0EB1E472K	4700P 25V	[M]
C8550	F2G0J330A031	33P 6.3V	[M]
C8551	ECJ0EF1C104Z	0.1 16V	[M]
C8552	F2G1C100A072	10P 16V	[M]
C8553	F2G0J470A031	47P 6.3V	[M]
C8554	ECJ1VB0J105K	1 6.3V	[M]
C8561	ECJ0EF1C104Z	0.1 16V	[M]
C8562	F2G1C100A072	10P 16V	[M]
C8563	F2G0J470A031	47P 6.3V	[M]
C8564	ECJ1VB0J105K	1 6.3V	[M]
C8571	ECJ3YB1A106M	10 10V	[M]
C8572	ECJ0EF1C104Z	0.1 16V	[M]
C8601	ECJ0EF1C104Z	0.1 16V	[M]
C8602	ECJ0EB1C153K	0.015 16V	[M]
C8606	ECJ0EF1C104Z	0.1 16V	[M]
C8611	ECJ0EF1C104Z	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C8621	ECJ0EC1H120J	12P 50V	[M]
C8622	ECJ0EC1H120J	12P 50V	[M]
C8651	ECJ0EB1A104K	0.1 10V	[M]
C8652	ECJ0EB1A104K	0.1 10V	[M]
C8691	ECJ0EF1C104Z	0.1 16V	[M]
C8695	ECJ0EF1C104Z	0.1 16V	[M]
C9500	ECQE1104KF3	0.1 100V	[M]
C9501	ECQE1104KF3	0.1 100V	[M]
C9502	ECKR1H103MD5	0.01 50V	[M]
C9503	ECKR1H102ZF5	1000P 50V	[M]
C9504	F1B1H103A153	0.01 50V	[M]
C9505	ECKR1H103MD5	0.01 50V	[M]
C9506	F1B2H103A060	0.01 500V	[M]
C9507	F1D1H101A012	100P 50V	[M]
C9508	ECEA1AKA470B	47 10V	[M]
C9509	ECA1HM470B	47 50V	[M]
C9510	F2A1E471A205	470P 25V	[M]
C9511	F2A1E471A205	470P 25V	[M]
C9512	ECA1HM470B	47 50V	[M]
C9513	ECA1EM472B	4700 25V	[M]
C9514	EEUFC1E102B	1000P 25V	[M]
C9515	ECA0JM102B	1000 6.3V	[M]
C9517	ECEA1HKA100B	10 50V	[M]
C9520	ECJ1VB1H473K	0.047 50V	[M]
C9521	ECJ1VB1H473K	0.047 50V	[M]
C9527	ECJ1VB1H473K	0.047 50V	[M]
C9530	ECJ1VB1H473K	0.047 50V	[M]
C9531	ECJ1VB1H473K	0.047 50V	[M]
C9532	ECJ1VB1H473K	0.047 50V	[M]
C9533	ECA1JM222B	2200 63V	[M]
C9533	ECEA1HKA010B	1 50V	[M]
C9534	ECA1JM222B	2200 63V	[M]

25.5. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPGX1478	PACKING CASE	[M]
P2	RPNX0342	POLYFOAM	[M]
P2	RPNX0343	POLYFOAM (SPEAKER)	[M]
P3	RPFX0007	MIRAMAT BAG	[M]
		ACCESSORIES	
A1	N2QAJB000142	REMOTE CONTROL	[M]
A1-1	RKK-HTR0051K	R/C BATTERY COVER	[M]
A2	K2CQ2CA00002	AC CORD	[M] ⚠
A3	RQT8171-R	O/I BOOK (Ru/Ur)	[M]
A4	RSA0007-L	FM ANTENNA	[M]
A5	N1DAAAA00001	AM ANTENNA	[M]
A6	K2KA2BA00001	VIDEO CABLE	[M]
A7	RP-VK21E-K	MICROPHONE	[M]

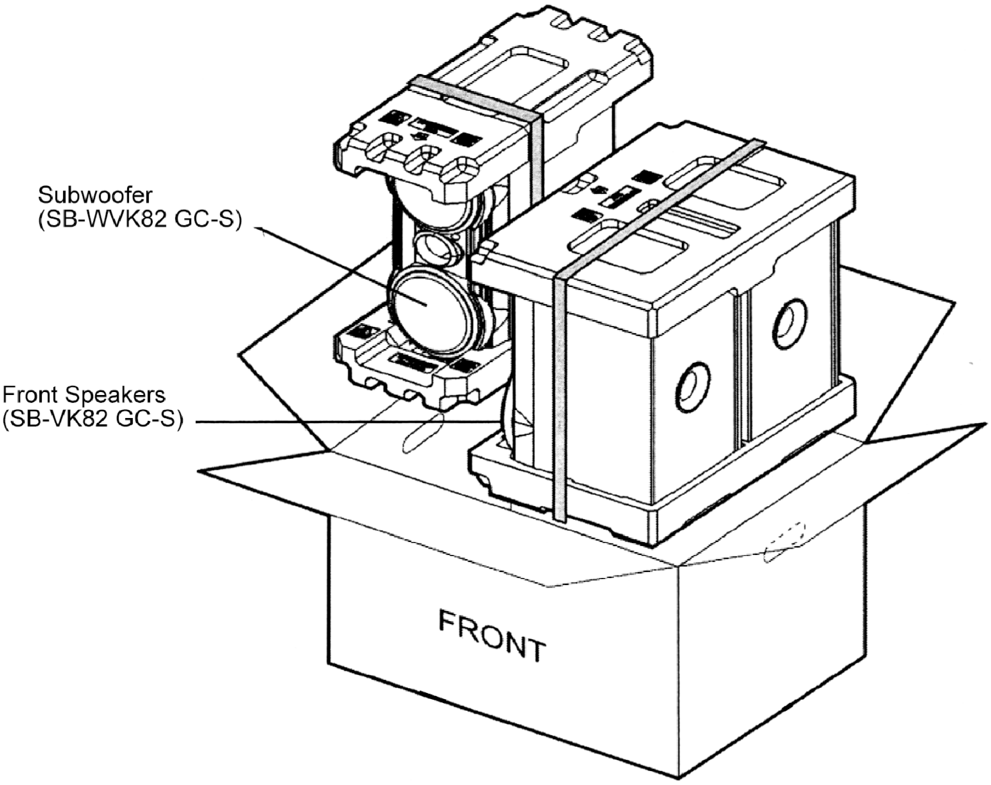
25.6. Packaging

25.6.1. Packaging (SB-VK82DGC-S)

This section consists of the packaging information for SB-VK82DGC-S. Below is the table for speaker combination. For information on the speakers model, please refer to its respective original service manual.

SB-VK82D GC-S

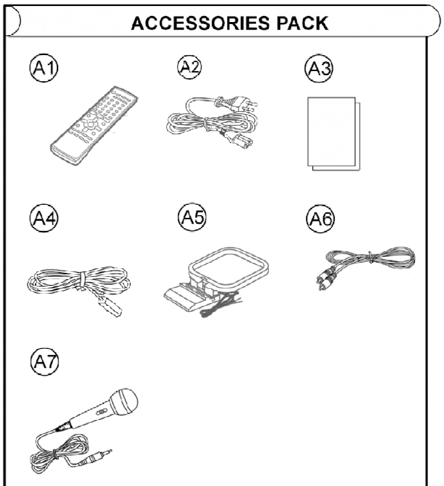
Front Speakers	SB-VK82 GC-S
Subwoofer	SB-WVK82 GC-S


Subwoofer
(SB-WVK82 GC-S)
Front Speakers
(SB-VK82 GC-S)
FRONT

25.6.2. Packaging (SF-VK825DEE)

This section consists of the packaging information for SF-VK825DEE. Below is the table for system combination. For information on the speakers model, please refer to its respective original service manual.

ACCESSORIES PACK


A1
A2
A3
A4
A5
A6
A7

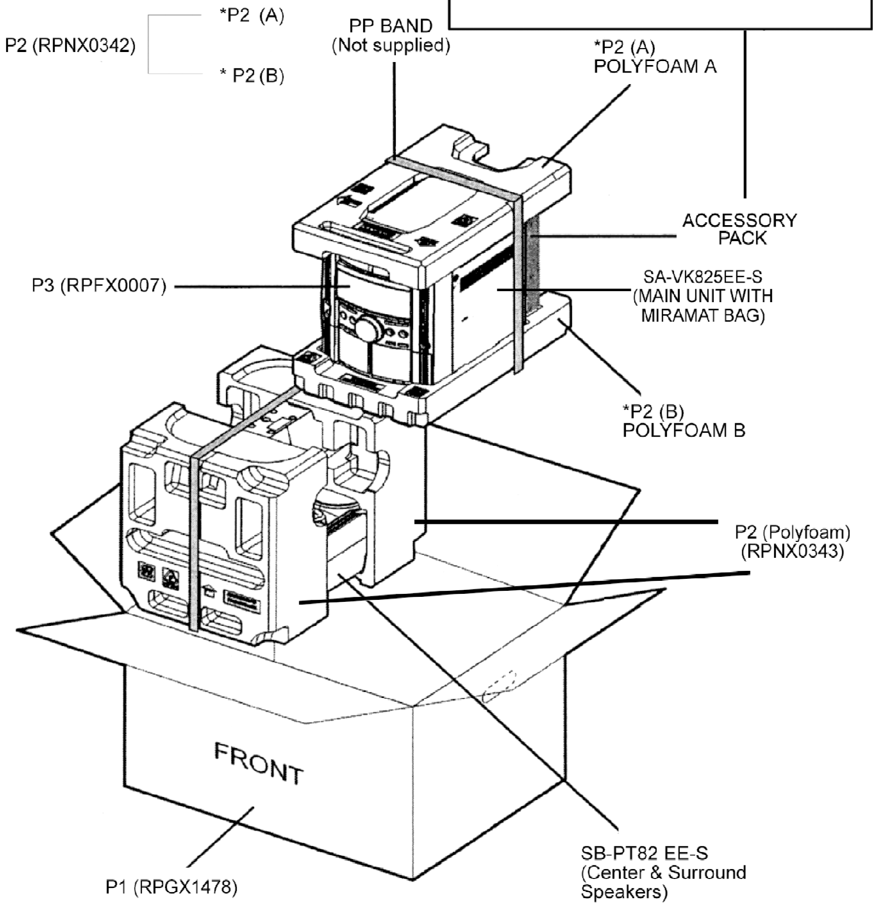
A1	REMOTE CONTROL
A2	AC CORD
A3	O/I BOOK
A4	FM ANTENNA
A5	AM ANTENNA
A6	VIDEO CABLE
A7	MICROPHONE

SF-VK825D EE-S

Main Unit	SA-VK825D EE-S
Satellite Speakers	SB-PT82 EE-S

SB-PT82 EE-S

Surround Speakers	SB-PS82 GC-S
Center Speaker	SB-PC82 GC-S


P2 (RPNX0342)
*P2 (A)
* P2 (B)
PP BAND
(Not supplied)
*P2 (A)
POLYFOAM A
ACCESSORY
PACK
P3 (RPFX0007)
SA-VK825EE-S
(MAIN UNIT WITH
MIRAMAT BAG)
*P2 (B)
POLYFOAM B
P2 (Polyfoam)
(RPNX0343)
FRONT
P1 (RPGX1478)
SB-PT82 EE-S
(Center & Surround
Speakers)

PRT0507 S/E/J/N/A